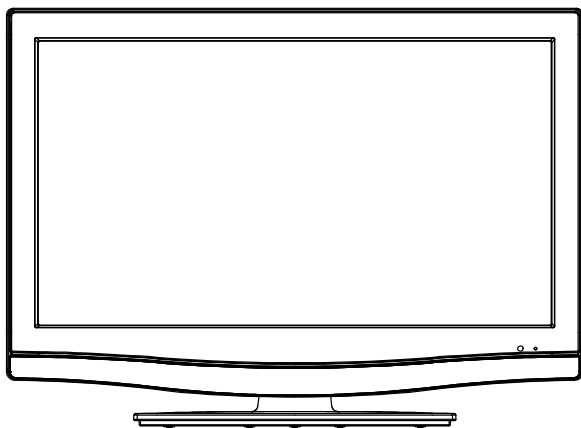




COMBINATION LIQUID CRYSTAL TELEVISION AND DVD/CD PLAYER

MODEL **LC-22DV200E**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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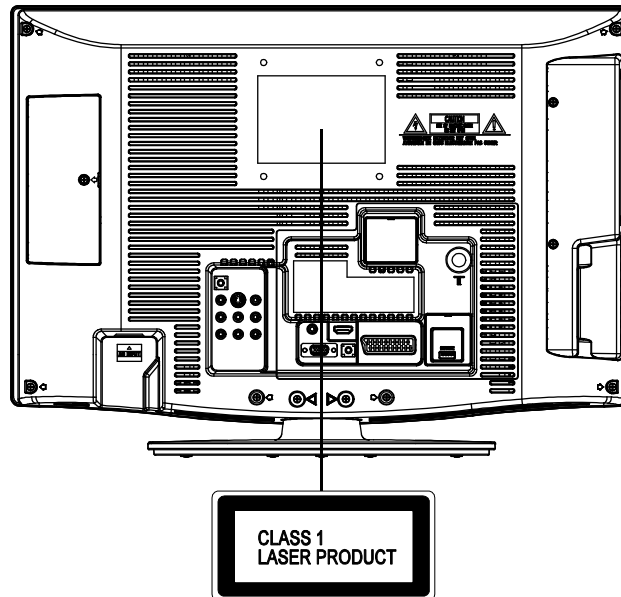
Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

IMPOTANT WARNING

CAUTION:

DVD PLAYER IS A CLASS 1 LASER PRODUCT. HOWEVER THIS PLAYER USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE PLAYER.



(Printed on the Rear Panel)

WHEN THIS PLAYER IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS PLAYER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a  mark, the designated parts must be used.

4. BE CAREFUL WITH THE LCD PANEL

Avoid a shock to the panel while servicing.
Take enough care to deal with it.

5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board.
The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts.
Therefore, put these parts in the original positions.

6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the external exposure metal **[Note 2]** should be more than 1M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 1M ohm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal
Headphone jack

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSION LETTER.)

1. MODEL NUMBER and VERSION LETTER

The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.

2. PART NO. and DESCRIPTION

You can find it in your SERVICE MANUAL.

IMPORTANT

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease.
(Old grease may cause damage to the IC and Transistor).

WHEN REPLACING DVD DECK

[When removing the DVD Deck]

Before removing Pick Up PCB and DVD MT PCB connector, the short circuit the position shown in **Fig. 1** using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

[When installing the DVD Deck]

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

NOTE

- Before your operation, please read "PREPARATION OF SERVICING".
- Use the Lead Free solder.
- Manual soldering conditions
 - Soldering temperature: $320 \pm 20^{\circ}\text{C}$
 - Soldering time: Within 3 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.

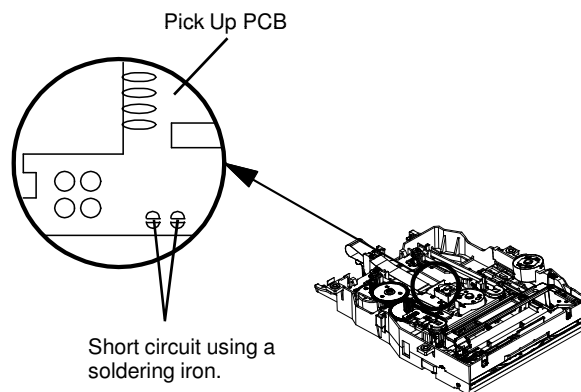


Fig. 1

PREPARATION OF SERVICING

The laser diode used for a pickup head may be destroyed with external static electricity. Moreover, even if it is operating normally after repair, when static electricity discharge is received at the time of repair, the life of the product may be shortened. Please perform the following measure against static electricity, be careful of destruction of a laser diode at the time of repair.

- Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- Soldering iron with ground wire or ceramic type is used.
- A worker needs to use a ground conductive wrist strap for body.

DISC REMOVAL METHOD AT NO POWER SUPPLY

1. Remove the Stand, Back Cabinet Ass'y and LCD Panel.
(Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.)
2. Slide the Gear Middle toward the arrow direction by hand to release the lock. (Refer to Fig. 1)
3. Take out the Disc from the DVD Deck. Be careful not to scratch on the Disc.

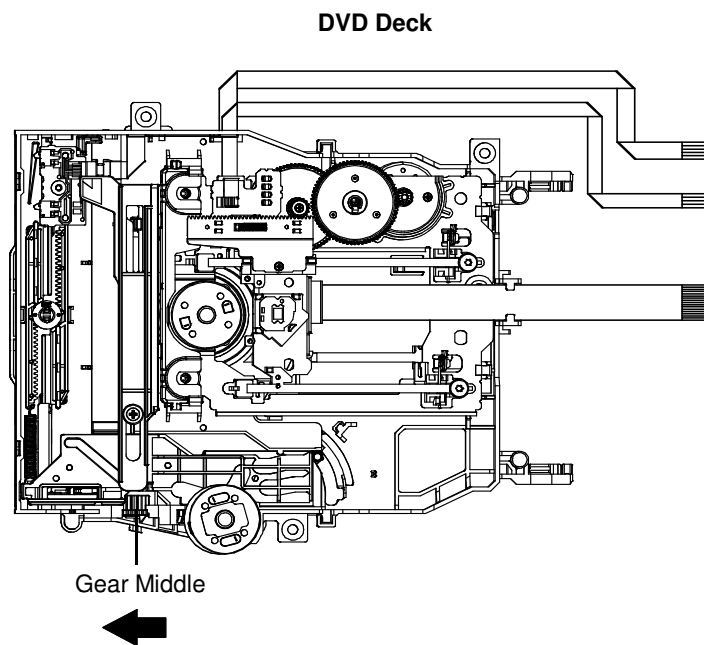
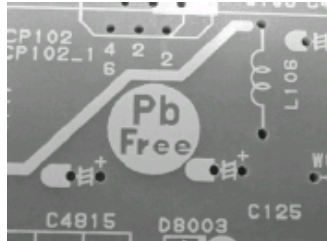


Fig. 1

ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB.
(Please refer to figures.)



Caution:

- Pb free solder has a higher melting point than standard solder;
Typically the melting point is 86°F~104°F(30°C~40°C) higher.
Please use a soldering iron with temperature control and adjust it to 650°F ± 20°F (350°C ± 10°C).
In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- All products with the printed circuit board with PbF printing must be serviced with lead free solder.
When soldering or unsoldering, completely remove all of the solder from the pins or solder area,
and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn-3.0Ag-0.5Cu.

HOTEL MODE FUNCTION

To set the Hotel mode, please follow the steps below.

1. Press the MENU---> 0027 button on the remote control.
2. The Hotel mode setting menu will appear.
3. Using the UP/DOWN button on the remote control, select the desired mode. Then press the ENTER button.
4. Using the LEFT/RIGHT button on the remote control, set the mode to desired setting.
5. The Hotel mode has now been set up.



To reset the Hotel mode, please follow the steps below.

1. Press the MENU---> 0027button on the remote control.
2. The Hotel mode setting menu will appear.
3. Using the UP/DOWN button on the remote control, select the RESET.
4. Using the LEFT/RIGHT button on the remote control, please select "OK". Then press the ENTER button.
5. The setting items has now been returned to initial value.

Setting item	Setting value	Initial value	FUNCTION
Maximum volume	0~100	100	Setting of the maximum volume value.
Panel button	RESPOND/ NO RESPOND	RESPOND	Effective/invalid setting of main key operation. (*Note 1)
Menu button			Effective/invalid setting of Menu key operation of set and remote control. (*Note 1)
Input mode start	TV/AV/ COMPONENT/ HDMI/PC/DVD/ OFF	OFF	Setting of input source at power supply On. (*Note 2)
Channel Number	All Channel	1	Channel Number tuned when starting this product can be set.
Reset	——	——	Various settings of the Hotel mode function return initial State.

Note 1) Even if setting it to "No Respond", the service mode function are effective.

Note 2) If setting it to "OFF", it start up in same input source when you turn off the power before.

GENERAL SPECIFICATIONS

G-1	TV System	LCD	LCD Size / Visual Size	21.60 inch / 547.7mmV
			LCD Type	Color TFT LCD
			Number of Pixels	1366(H) x 768(V)
			View Range	85/85 degree
			Left/Right Up/Down	80/80 degree
			Bright Dot	n ≤ 0
			Zero Bright Dot Ratio	--
G-2	DVD System	Color System		PAL / SECAM
		Disc		2 Speaker
		Disc Diameter		Front
		Drive		1.0 x 2.7 inch
		Search speed	Fwd	8 ohm
			Actual	1.5W + 1.5W
			Rev	---
G-3	Tuning System	NTSC3.58+4.43 / PAL60Hz		Yes
		Color System		NTSC, PAL
		Disc		DVD, CD-DA, CD-R/RW, Video CD, SVCD
		Disc Diameter		120 mm, 80 mm
		Drive		DSM-3
		Search speed	Fwd	4 step
			Actual	4, 8, 16, 32 times (DVD)
G-4	Signal		Rev	4, 8, 16, 32 times (CD)
			Actual	4 step
			Actual	4, 8, 16, 32 times (DVD)
			Actual	4, 8, 16, 32 times (CD)
		Slow speed	Fwd	4 step
			Actual	1/16, 1/8, 1/4, 1/2 times
			Rev	4 step
G-5	Power		Actual	1/16, 1/8, 1/4, 1/2 times
		Broadcasting System	Analog	U.K., I.R., CCIR, FRENCH System
			Digital	DVB-T(OFDM 2k/8k, 16QAM/64QAM), DVB-T HD(H.264)
		Tuner and Receive CH	System	1Tuner (Analog+Digital)
		CH Coverage	Destination	UK, I.R., CCIR Hyper+France CATV
			Analog	IreE2~E4, X~Z+2, S1~S10, E5~E12, S11~S41, E21~E69
			Digital	E5~E12, ItaD~H2, Fra1~6, Rus6~12, E21~E69
G-6	Regulation	Intermediate Frequency	Analog	BG / II / DK, L / L' (SECAM VL)
			Picture(FP)	38.9 / 38.9 / 38.9 / 33.9MHz
			Sound(FS)	33.4 / 32.9 / 32.4 / 40.4MHz
			FP-FS	5.5 / 6.0 / 6.5 / 6.5MHz
			Digital	36.167MHz
		Auto Tuning Method		ALL Band (Not C.C.I.R. CH Plan)
		Preset CH		2000 Service in total of Analog and Digital.
G-7	Temperature	Stereo/Dual TV Sound		Nicam/A2 Dual
		Tuner Sound Muting		Yes
		Video Signal	Input Level	1 V p-p/75 ohm
			Output Level	1 V p-p/75 ohm
			S/N Ratio (Weighted)	65dB
			Horizontal Resolution at DVD Mode	400 Lines
		RGB Signal	Output Level	--
G-8	Operating Humidity	Audio Signal	Input Level	-8.0dBm/50k ohm
			Output Level	-12.0dBm/1k ohm (-20dBFS 0dBFS=2.0Vrms)
			at DVD	-8 dBm/1k ohm (0dBm=0.775Vrms)
			at TV	0.5 V p-p/75 ohm
			Digital Output Level	85dB
			S/N Ratio at DVD (Weighted)	0.02% (1KHz)
			Harmonic Distortion	4Hz - 22kHz
G-9	OSD Language		Frequency Response :	4Hz - 20kHz
			at DVD	4Hz - 20kHz
			at Video CD/SVCD	4Hz - 20kHz
			at CD	
		Power Source	AC	220-240V AC 50Hz
			DC	---
		Power Consumption	at AC	49 W at AC 230 V 50 Hz
G-10	Stand by (at AC)		at DC	--
		w/ EPG Timer		--
		w/o EPG Timer		0.7 W at AC 230 V 50 Hz
		Per Year		-- kWh/Year
		Protector	Power Fuse	Yes
		Safety		CE(EN60065:2002+AMD.11:2008), SEMKO, HOMOLO, Ukraine Safety
		Radiation		CE
G-11	X-Radiation			---
		Operation		+5°C ~ +40°C
		Storage		-20°C ~ +60°C
		Space Around Unit		100mm (4inch)
		Operating Humidity		Less than 80% RH
		OSD Language	(TV)	English, Spanish, German, French, Italian, Swedish
			(DVD)	Dutch, Russian, Portuguese, Turkish, Greek, Finnish
G-12	OSD Language			Polish, Danish, Norwegian, Hungarian, Czech, Slovak
				Estonian, Latvian, Lithuanian, Slovenian, Ukrainian
				English, Spanish, German, French, Italian, Swedish
				Dutch, Russian, Portuguese, Turkish, Greek, Finnish
				Polish, Danish, Norwegian, Hungarian, Czech, Slovak
				Estonian, Latvian, Lithuanian, Slovenian, Ukrainian

GENERAL SPECIFICATIONS

G-10	Clock and Timer	Sleep Timer	Max Time	120 Min
		On/Off Timer	Step	10 / 20 / 30 / 40 / 50 / 60 / 90 / 120 Min
		Timer Back-up (at Power Off Mode)	Program(On Timer / Off Timer)	1 Program / 1 Program
		EPG Timer Events	more than	-- Min Sec
G-11	Remote Control	Unit		RC-RV
		Glow in Dark Remocon		No
		Remocon Format		ORION
		Format		NEC
		Custom Code		71-8E h
		Power Source	Voltage(D.C)	3V
			UM size x pcs	UM-3 x 2 pcs
		Total Keys		47 Keys
		Keys	Power (Stand By)	Yes
			Display / (Status)	Yes
			Analog Menu	No
			Digital Menu	No
			Input Select	Yes
			DTV/ATV	Yes
			TV/DVD	Yes
			Eject	No
			Guide(EPG)	Yes
			Picture Size	Yes
			1	Yes
			2	Yes
			3	Yes
			4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			Sleep	No
			Mute	Yes
			Volume Up / →	No
			Volume Down / ←	No
			Volume Up	Yes
			Volume Down	Yes
			CH Down	No
			CH Up	No
			Menu / Setup	Yes
			↑	Yes
			↓	Yes
			← /Slow-	Yes
			→ /Slow+	Yes
			OK / CH List	Yes
			Return	Yes
			Freeze	No
			TV/Radio	No
			Subtitle	Yes
			Audio	No
			Play	Yes
			Stop	Yes
			Pause	Yes
			Quick View	Yes
			Cancel	Yes
			DVD Menu	Yes
			Top Menu	Yes
			Repeat A-B	No
			Play Mode	Yes
			Jump	No
			Search+	No
			Search-	No
		T*TEXT Keys	TEXT / TAP / TV	Yes
			Slow+ / F.T.B	No
			Audio / F.T.B	Yes
			Slow- / Hold	No
			Freeze / Hold	Yes
			Angle / Reveal	Yes
			Zoom / Sub Page	Yes
			Red/Skip-	Yes
			Green/REV	Yes
			Yellow/FWD	Yes
			Cyan/Skip+	Yes
			CH Up / Page Up	Yes
			CH Down / Page Down	Yes

GENERAL SPECIFICATIONS

G-12	Features	Power On Memory	Yes
		Auto Shut Off	Yes
		Just Clock Function	No
		Game Position	No
		DNR	Yes
			3D
		Comb Filter	Yes
			3D
		Auto Set Up (Fast installation)	Yes
		Auto tuning	Yes
		CH sort	Yes
		ATS	Yes
		Auto clock (Digital tuner)	Yes
		Plug in start	Yes
		Picture Setting(TV)	Yes
		Picture Preference	Yes
		Brightness , Contrast , Color	Yes
		Tint	Yes
		Sharpness	Yes
		DNR	Yes
		Color Temperature	Yes
		Blue Back	Yes
		Backlight Control	Yes
		HDMI Mode	Yes
		DBC (Dynamic Backlight Control)	Yes
		Film Mode	No
		Picture Setting(PC)	Yes (Connected with TV mode setting)
		BRIGHTNESS , CONTRAST	Yes
		HOR POSITION , VER POSITION	Yes
		PHASE , CLOCK	Yes
		AUTO ADJUST	Yes
		RED , GREEN , BLUE	Yes
		Backlight	Yes (Connected with TV mode setting)
		WXGA INPUT	No
		WVGA INPUT	No
		Audio	Yes
		Tone Control (Bass/Treble/Balance)	Yes
		Surround	Yes
		Equalizer	Yes
		Speaker	No
		Stable Sound	No
		Audio Description	Yes
		BBE	No
		SRS WOW (SRS 3D/Focus/Tru Bass)	No
		Variable Audio Out	No
		Tuning	Yes
		Auto Tuning (Analog/Digital)	Yes
		Update Scan (Analog/Digital)	Yes
		CH Skip (Analog/Digital)	Yes
		CH Sort (Analog/Digital)	Yes
		CH Edit (Analog/Digital)	Yes
		Fine Tuning (Analog)	Yes
		Lock	No
		Panel Lock	Yes
		Channel Lock	Yes
		Parental Lock (Digital)	Yes
		Hotel Lock	Yes
		Screen Saver	No
		Inversion	No
		Full White	No
		Screen Saver	No
		Static Image	No
		T'Text	Yes
		Text type	Fastext / Toptext
		Text Language	English, German, Swedish, Finnish, Hungarian, Italian, French, Portuguese, Spanish, Czech, Slovak, Polish, Estonian, Lettish, Lithuanian, Serbian, Croatian, Slovenian, Rumanian, Russian, Bulgarian, Ukrainian, Turkish, Greek, Hebrew, Arabic
		Text and Picture	Yes
		Wide Mode (AUTO/4:3/16:9/CINEMA/14:9/REAL)	Yes
		CH Label	Yes
		Reset TV Setting	Yes
		HD Zoom	Yes
		Picture Scroll (Vertical Position)	No
		PFC(Power Factor circuit)	No
		Freeze frame	Yes (Tuner Only)
		Plug and Play	No
		Power Management	Yes
		No Operation Power Off	Yes
		Hearing Impaired	Yes
		4:3 Mode (Auto 4:3 Default)	Yes
		TV Location	Yes

GENERAL SPECIFICATIONS

Scart Spec	Scart1	AV in	Yes	
		AV out	Yes (A. Tuner/D. Tuner)	
		S-Video in	Yes	
		RGB in	Yes	
	Scart2	AV in	No	
		AV out	No	
		S-Video in	No	
		RGB in	No	
Digital Text (VBI teletext)			Yes	
MHEG-5			No	
MHP			No	
EPG (BBC type 8Days Digital tuner only)			Yes	
OAD (Over Air Download)			Yes	
Common Interface (Digital tuner only)			Yes	
Rec Screen Status			No	
Ch sorting based on Ch List (Digital/Germany only)			Yes	
Rename Carrier (Digital)			No	
Edit Event Timer			No	
Software Update via CI Slot			No	
Preference Language (Audio/Subtitle/Digital Service)(Digital)			Yes	
DVB Subtitle (Digital)			Yes	
Time Setup			Yes	
Signal Status			Yes	
Digital Out		Dolby Digital	Dolby Digital	
		Dolby Digital Plus	Dolby Digital	
		MPEG	PCM	
		HE AAC	Dolby Digital	
Decode(Down Mix)		Dolby Digital	Yes	
		Dolby Digital Plus	Yes	
		MPEG	Yes	
		HE AAC	Yes	
PC Monitor Input			Yes	
		VGA (640x480)	Yes (60Hz)	
		VGA (720x400)	No (Possible to Display)	
		WVGA (848x480)	No	
		SVGA (800x600)	Yes (60Hz)	
		XGA (1024x768)	Yes (60Hz)	
		WXGA (1280x768)	Yes (60Hz)	
		WXGA (1280x720)	Yes (60Hz)	
		WXGA (1360x768)	Yes (60Hz)	
		SXGA (1280x1024)	No (Possible to Display)	
		WXGA+ (1440x900)	No (Possible to Display)	
		WSXGA+ (1680x1050)	No (Possible to Display)	
		FULL HD (1920x1080)	No (Possible to Display)	
HDMI Input			Yes	
		VGA (640x480)	Yes (60Hz)	
		VGA (720x400)	No (Possible to Display)	
		WVGA (848x480)	No	
		SVGA (800x600)	Yes (60Hz)	
		XGA (1024x768)	Yes (60Hz)	
		WXGA (1280x768)	Yes (60Hz)	
		WXGA (1280x720)	Yes (60Hz)	
		WXGA (1360x768)	Yes (60Hz)	
		SXGA (1280x1024)	No (Possible to Display)	
		WXGA+ (1440x900)	No (Possible to Display)	
		WSXGA+ (1680x1050)	No (Possible to Display)	
		FULL HD (1920x1080)	No (Possible to Display)	
		720x480i (4:3)	Yes (60Hz)	
		720x480i (16:9)	Yes (60Hz)	
		720x480p (4:3)	Yes (60Hz)	
		720x480p (16:9)	Yes (60Hz)	
		720x576i (4:3)	Yes (50Hz)	
		720x576i (16:9)	Yes (50Hz)	
		720x576p (4:3)	Yes (50Hz)	
		720x576p (16:9)	Yes (50Hz)	
		1280x720p	Yes (50/60Hz)	
		1920x1080i	Yes (50/60Hz)	
		1920x1080p	Yes (24/50/60Hz)	
		CEC(ORION Standard)	No	
		Deep Color	No	
		xvYCC	No	
	Component Input			Yes
			720x480i (4:3)	Yes (60Hz)
			720x480i (16:9)	Yes (60Hz)
			720x480p (4:3)	Yes (60Hz)
			720x480p (16:9)	Yes (60Hz)
			720x576i (4:3)	Yes (50Hz)
			720x576i (16:9)	Yes (50Hz)
		720x576p (4:3)	Yes (50Hz)	
		720x576p (16:9)	Yes (50Hz)	
		1280x720p	Yes (50/60Hz)	
		1920x1080i	Yes (50/60Hz)	
		1920x1080p	No (Possible to Display)	

GENERAL SPECIFICATIONS

	Features (DVD)	Wall Mount	Size W x H(mm)	Yes (100 x 100)
			Screw Size	M4 x 10
		Stand	Tilt	No
			Swivel	No
		Parental Lock		Yes
		Auto Power Off		No
		Video CD Playback		Yes
		SVCD Playback		Yes
		MP3 Playback		Yes
		WMA Playback		Yes
		JPEG Playback		Yes
		Fujicolor CD		Yes
		KODAK Picture CD		Yes
		Divx Playback		Yes
			DMF Support	No
		VR Format Playba		No
		USB		No
		Digital Out	Dolby Digital	Dolby Digital
			MPEG	PCM
			PCM	PCM
			DTS	Yes
		Decode(Down Mix)	Dolby Digital	Yes
			DTS	No
		Auto Retract Disc		No
		BNR		No
		Disc Navigator		Yes
		E.B.L. (Enhanced Black Level)		No
		Surround		No
		Screen Saver		No
		Tray Lock		No
		One Touch Replay		No
		CGMS-A in CC XDS		No
		Audio DAC		192kHz / 24bit
		Macrovision		Yes (No Video Out)
		Closed Caption signal in VBI (DVD Playback)		No
		Play Mode		Yes
		Audio Adjust		Yes
			Equalizer	Yes
			Dynamic Range Control	Yes
			Dialog	Yes
		Video Adjust		Yes
			Sharpness	Yes
			Brightness	Yes
			Contrast	Yes
			Gamma	Yes
			Hue	Yes
			Chroma Level	Yes
		TV Screen	4:3 (Letter Box; Pan Scan)	Yes
			16:9 (Wide)	Yes
		Audio Language		Yes
		Subtitle Language		Yes
		DVD Menu Language		Yes
		Subtitle Display		Yes
		Angle Indicator		Yes
G-13	Accessories	Owner's Manual	Language	English, Spanish, German, French, Italian, Swedish Dutch, Portuguese, Turkish, Greek, Finnish Polish, Danish, Norwegian, Hungarian, Czech, Slovak Estonian, Latvian, Lithuanian, Slovenian, Ukranian
			w/Guarantee Card	No
		Remote Control Unit		Yes
		Rod Antenna		No
			Poles	-
			Terminal	-
		Loop Antenna (W/ Antenna Change Plug)		No
			Terminal	-
		DVB-T Antenna		No
		U/V Mixer		No
		DC Car Cord (Center+)		No
		Guarantee Card		No
		Caution Sheet		No
		Repair Coupon		No
		AQUOS Care plan		No
		Warning Sheet		No
		Circuit Diagram		No
		Antenna Change Plug		No
		Service Facility List		No
		Important Safeguard		No
		Quick Set-up Sheet		Yes(23Language)
		Battery		Yes
			UM size x pcs	UM-3 x 2 pcs
			OEM Brand	No

GENERAL SPECIFICATIONS

		AC Adapter		No	
		AC Cord (for AC Adapter)		No	
		AC Cord		Yes	
		AV Cord (2Pin-1Pin)		No	
		HDMI-DVI Cable		No	
		Registration Card		No	
		300 ohm to 75 ohm Antenna Adapter		No	
		Stand Screw???		Yes (3pcs)	
		Stand		Yes	
		Frame Stand		No	
G-14	Interface	Switch	Side	Power (Tact)	Yes
				System Select	No
				Main Power SW	No
				Channel Up / Play / Menu Up	Yes
				Channel Down / Stop / Menu Down	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
				Input Select/Enter	Yes
				Menu	Yes
				Eject	Yes
			Indicator	Power/Stand-by	Yes(GREEN / RED)
				On Timer	No
			Terminals	Rear	Video Input 1
		Audio Input 1			RCA x 2(L/MONO, R) (AV2)
		S- Input 1			Yes
		Video Input 2			No
		Audio Input 2			No
		S- Input 2			No
		Video Output			No
		Audio Output			No
		Digital Audio Out (Coaxial)			Yes
		Other Terminal			Headphone
		Euro Scart (21Pin)			1Scart (AV1)
		Component In			RCA x 3
		Audio Input (Component In use)			RCA x 2(L/MONO, R)
		PC Monitor Input (D-Sub)			Yes
		Audio Input			Mini Pin Jack(ϕ 3.5), STEREO
		HDMI Input 1			Yes
		Audio Input (HDMI/DVI In use)			PC Monitor Audio Input Alternative
		HDMI Input 2			No
		Audio Input (HDMI/DVI In use)			No
		HDMI Input 3			No
		Audio Input (HDMI/DVI In use)			No
		USB(Software Update)			Yes
		Sub Woofer Output			No
		Diversity			No
		Ext Speaker			No
		DC Jack 12V(Center +)			No
		AC Inlet			Yes
		VHF/UHF Antenna Input			DIN Type
		Side			CI Card Slot
G-15	Set Size	Approx. W x D x H (mm)	536.5 x 201 x 396		
		w/o Stand,Handle Approx. W x D x H (mm)	536.5 x 67 x 367.5		
G-16	Weight	Net Approx.	5.3kg (11.7lbs)		
		Net w/o Stand,Handle Approx.	4.7kg (10.4lbs)		
		Gross Approx.	7.7kg (16.9lbs)		
		Gross w/Master Carton (Approx.)	--- kg (--- lbs)		
G-17	Carton	Master Carton		No	
			Content	---- Sets	
			Material	-- /--	
			Dimensions W x D x H(mm)	-- x -- x --	
			Description of Origin	No	
		Gift Box		Yes	
			Material	Single/Brown	
			Dimensions W x D x H(mm)	660 x 458 x 168	
			Design	As per Buyer's	
			Description of Origin	No	
		Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces	
			Height (cm)	80	
		Container Stuffing		1092 Sets/45' Trailer	
		w/Pallet		Yes	
		w/Wrapping		Yes	
G-18	Material	Cabinet	Cabinet Front	PC+ABS 94V0 NON-HALOGEN	
			Cabinet Rear	PS 94V0 NON-DECABROM	
			Stand	PC+ABS 94V0 NON-HALOGEN	
		PCB	Non-Halogen	No	
			Eyelet	Yes	
G-19	Environment	Environmental standard requirement		Green procurement of SHARP	
		Pb- Free		Phase3(PHASE3A)	
		Measures for Whisker		Yes	
		WEEE		Yes	

DISASSEMBLY INSTRUCTIONS

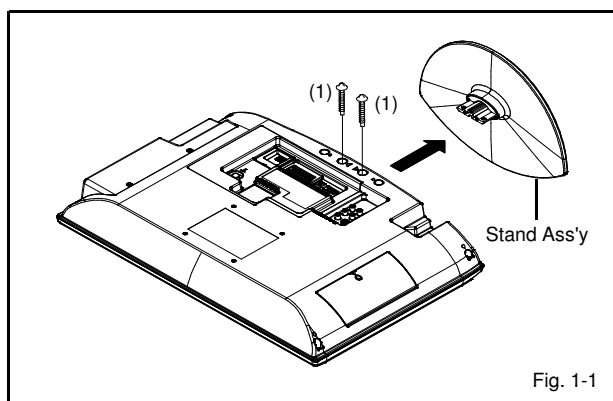
1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

CAUTION

Be careful not to remove the FFC cable forcibly, because the FFC cable may be damaged.

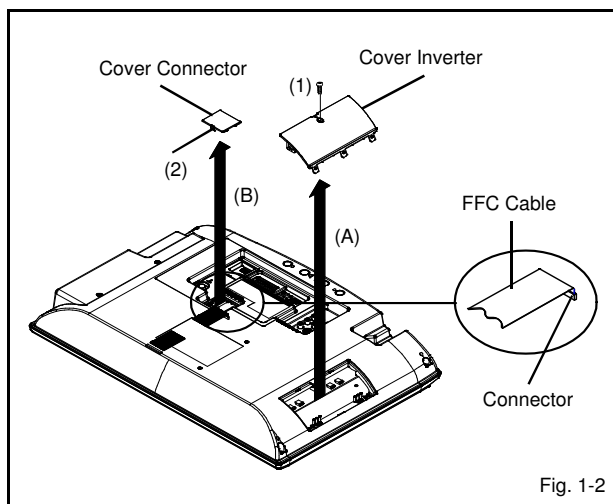
1-1: STAND ASS'Y (Refer to Fig. 1-1)

1. Remove the 2 screws (1).
2. Remove the Stand Ass'y in the direction of arrow.



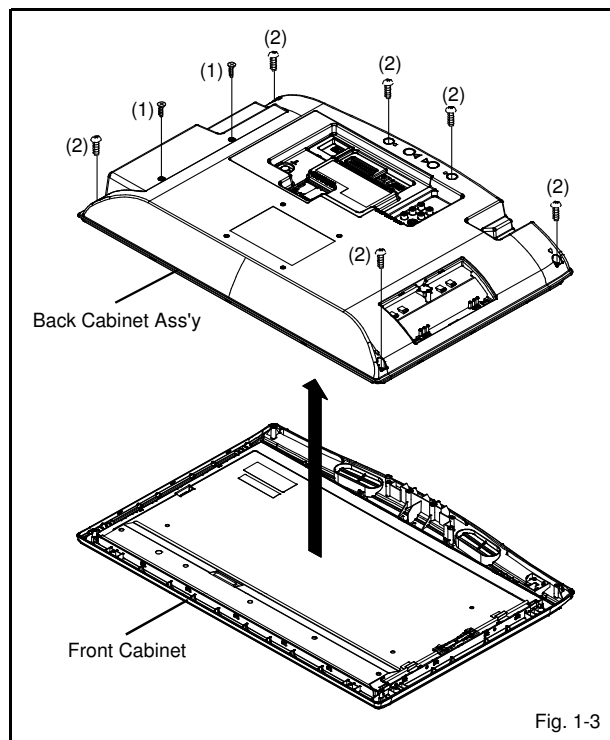
1-2: COVER INVERTER and COVER CONNECTOR (Refer to Fig. 1-2)

1. Remove the screw (1).
2. Remove the Cover Inverter in the direction of arrow (A).
3. Disconnect the following connectors: **(CP7001, CP7002, CP7003 and CP7004).**
4. Unlock the support (2).
5. Remove the Cover Connector in the direction of arrow (B).
6. Disconnect the following connector: **(CP2802).**



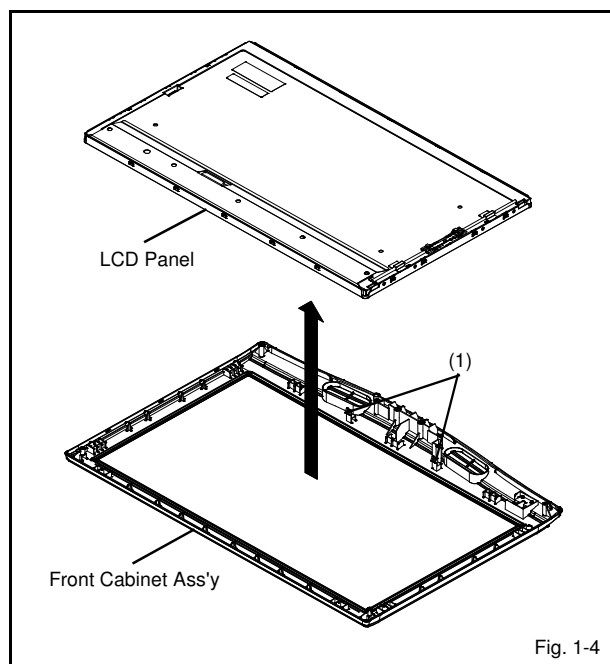
1-3: BACK CABINET ASS'Y (Refer to Fig. 1-3)

1. Remove the 2 screws (1).
2. Remove the 6 screws (2).
3. Remove the Back Cabinet Ass'y in the direction of arrow.



1-4: LCD PANEL (Refer to Fig. 1-4)

1. Unlock the 2 supports (1).
2. Remove the LCD PANEL in the direction of arrow.



DISASSEMBLY INSTRUCTIONS

1-5: DVD MT PCB and DVD DECK (Refer to Fig. 1-5)

1. Put the Back Cabinet Ass'y on the bottom.
2. Short circuit the position shown in Fig. 1-5 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.
3. Disconnect the following connectors: **(CP2301, CP2302, CP2303, CP8501 and CP8502).**
4. Remove the 3 screws (1).
5. Remove the DVD DECK Ass'y in the direction of arrow (A).
6. Remove the 2 screws (2).
7. Remove the Shield LVDS in the direction of arrow (B).
8. Unlock the 2 supports (3).
9. Remove the DVD MT PCB in the direction of arrow (C).

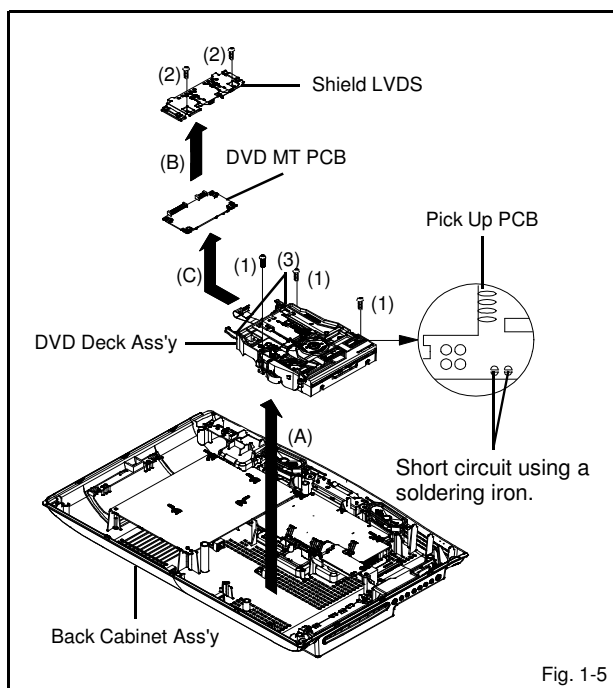


Fig. 1-5

NOTE

1. Before your operation, please read "PREPARATION OF SERVICING".
2. Use the Lead Free solder.
3. Manual soldering conditions
 - Soldering temperature: $320 \pm 20^{\circ}\text{C}$
 - Soldering time: Within 3 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
4. When Soldering/Removing of solder, use the drawing equipment over the Pick Up Unit to keep the Flux smoke away from it.
5. When installing the DVD Deck, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

1-6: POWER PCB (Refer to Fig. 1-6)

1. Remove the 7 screws (1).
2. Disconnect the following connector: **(CP501 and CP8101).**
3. Remove the Power PCB in the direction of arrow.

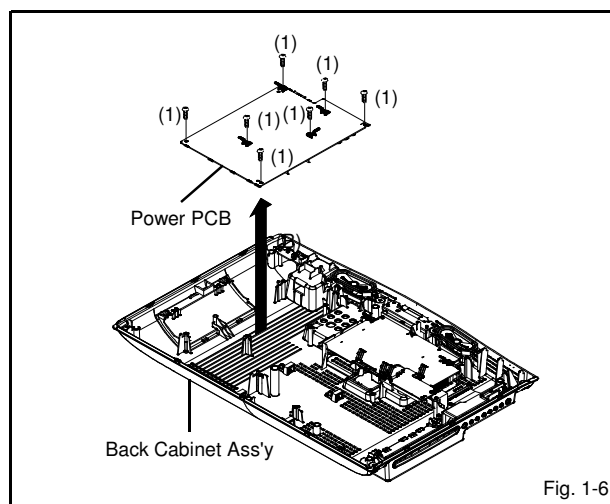


Fig. 1-6

1-7: TUNER PCB and MAIN PCB (Refer to Fig. 1-7)

1. Remove the 2 screws (1).
2. Disconnect the following connector: **(CP5802).**
3. Remove the Tuner PCB in the direction of arrow (A).
4. Remove the screw (2).
5. Remove the Spring Tuner in the direction of arrow (B).
6. Disconnect the following connector: **(CP2201).**
7. Remove the 6 screws (3).
8. Remove the Main PCB and Holder PCB in the direction of arrow (C).
9. Remove the 2 screws (4).
10. Remove the Holder CI Card in the direction of arrow (D).

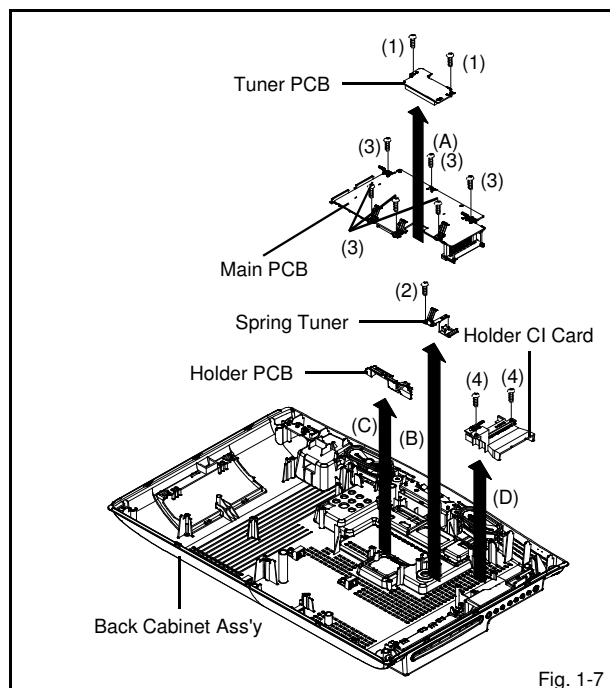
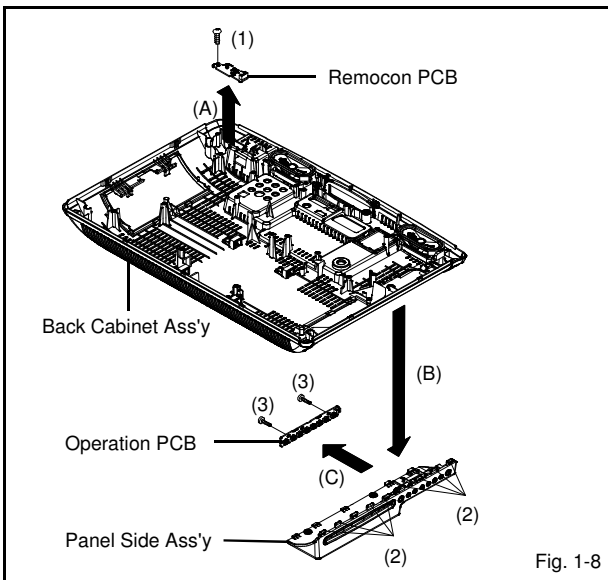


Fig. 1-7

DISASSEMBLY INSTRUCTIONS

1-8: REMOCON PCB and OPERATION PCB (Refer to Fig. 1-8)

1. Remove the screw (1).
2. Remove the Remocon PCB in the direction of arrow (A).
3. Push 9 supports (2).
4. Remove the Panel Side Ass'y in the direction of arrow (B).
5. Remove the 2 screws (3).
6. Remove the Operation PCB in the direction of arrow (C).



DISASSEMBLY INSTRUCTIONS

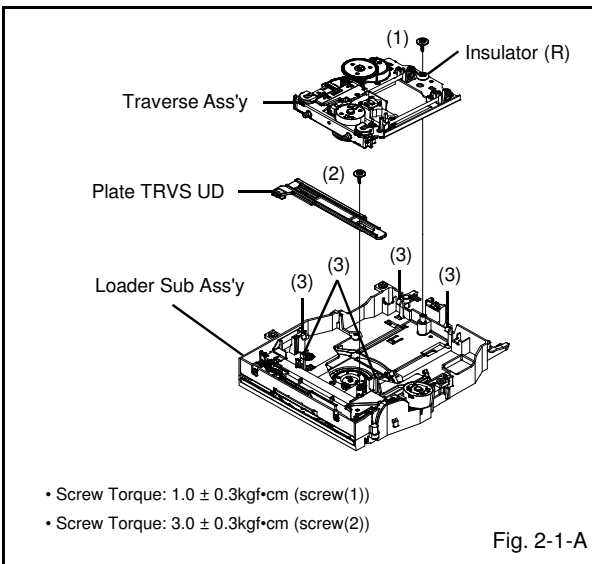
2. REMOVAL OF DVD DECK PARTS

NOTE

1. Disassemble only the DVD DECK PARTS parts listed here. Minute adjustments are needed if the disassembly is done. If the repair is needed except listed parts, replace the DVD MECHA ASS'Y.

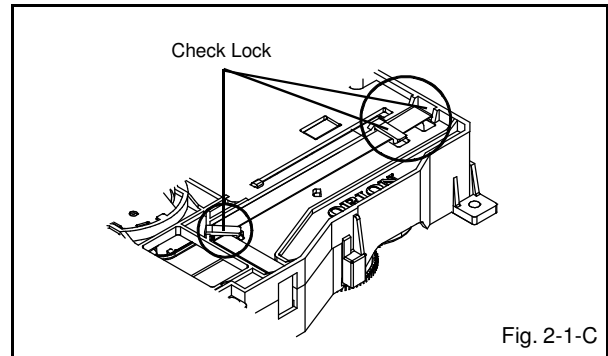
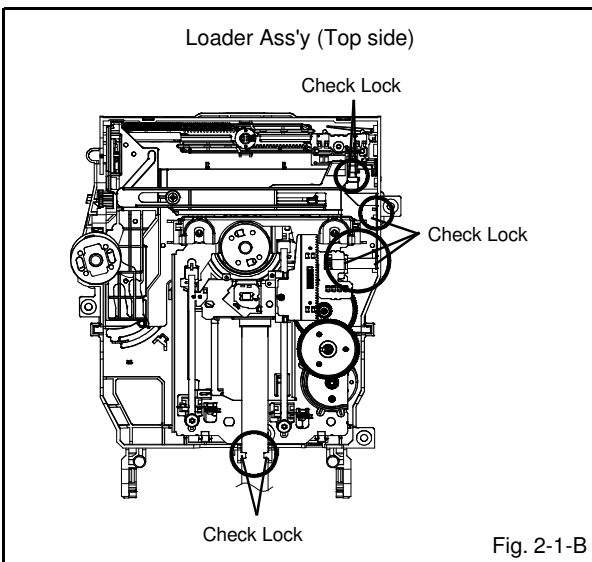
2-1: TRAVERSE ASS'Y/LOADING MOTOR PCB ASS'Y/ PLATE TRVS UD (Refer to Fig. 2-1-A)

1. Remove the screw (1).
2. Remove the screw (2).
3. Unlock the 5 supports (3).
4. Remove the Insulator (R) from the Loader Ass'y.
5. Remove the Traverse Ass'y and Plate Trvs Ud.



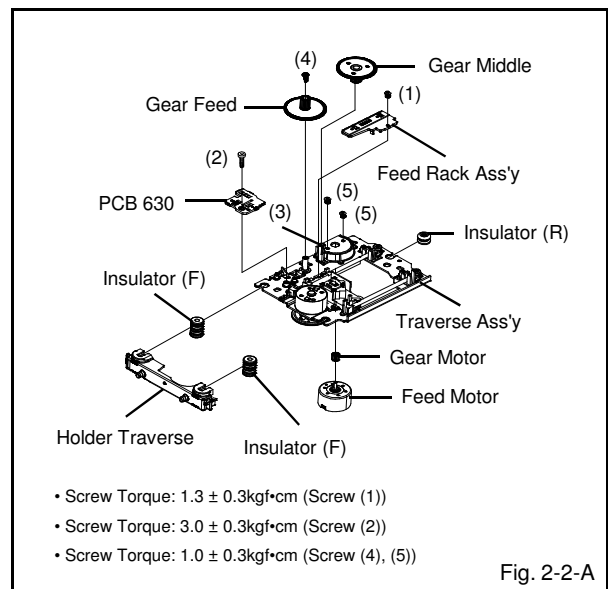
NOTE

1. In case of the Traverse Ass'y installation, hook the wire on the Loader Ass'y as shown Fig. 2-1-B to Fig. 2-1-C.



2.2: HOLDER TRAVERSE/INSULATOR (F)/ INSULATOR (R)/FEED RACK ASS'Y/ PCB630/GEAR MIDDLE/GEAR FEED/ FEED MOTOR/GEAR MOTOR (Refer to Fig. 2-2-A)

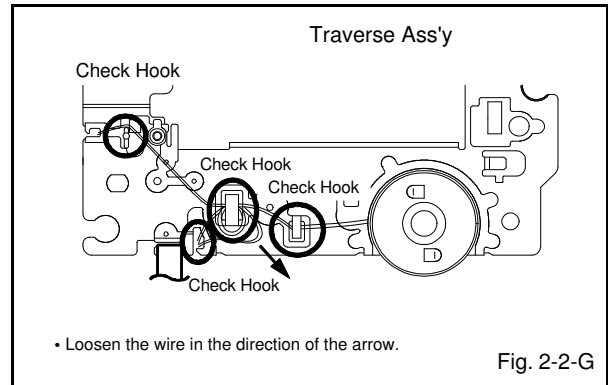
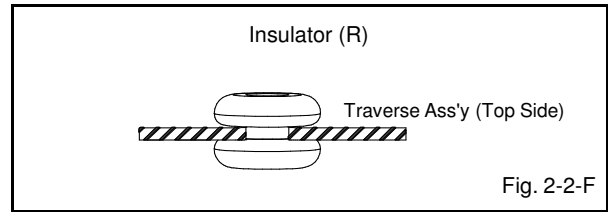
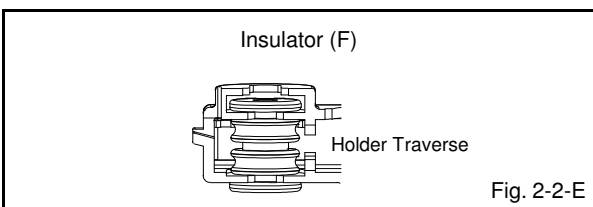
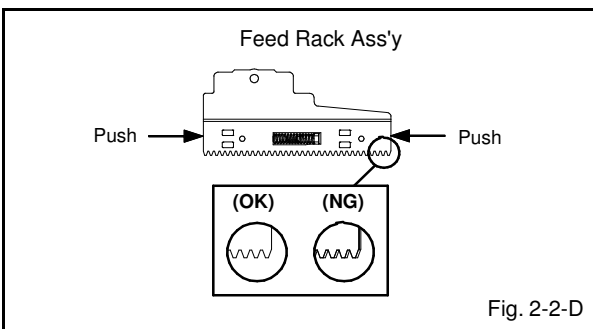
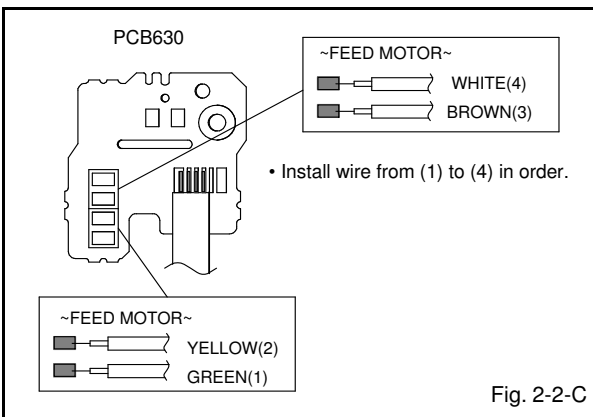
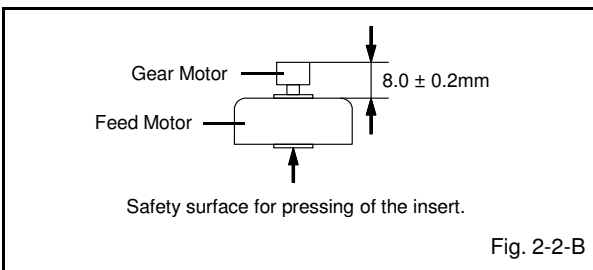
1. Remove the Holder Traverse.
2. Remove the Insulator (F).
3. Remove the Insulator (R).
4. Remove the screw (1).
5. Remove the Feed Rack Ass'y.
6. Remove the screw (2).
7. Remove the PCB630.
8. Unlock the support (3).
9. Remove the Gear Middle.
10. Remove the screw (4).
11. Remove the Gear Feed.
12. Remove the 2 screws (5).
13. Remove the Feed Motor.
14. Remove the Gear Motor.



DISASSEMBLY INSTRUCTIONS

NOTE

1. In case of the Gear Motor installation, check if the value of the Fig. 2-2-B is correct.
2. When installing the wire of the PCB630 install it correctly as Fig. 2-2-C.
Manual soldering conditions
 - Soldering temperature: $350 \pm 5^{\circ}\text{C}$
 - Soldering time: Within 4 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
3. When installing the Feed Rack Ass'y, push both ends to align the teeth as shown Fig. 2-2-D. Then install it.
4. In case of the Insulator (F) installation, install correctly as Fig. 2-2-E.
5. In case of the Insulator (R) installation, install correctly as Fig. 2-2-F.
6. After the assembly of the Traverse Ass'y, hook the wire on the Traverse Ass'y as shown Fig. 2-2-G.



2.3: GEAR ROLLER/LUMIRROR WASHER/ ROLLER CONE/SHAFT ROLLER/ LOADING MOTOR PCB/LOADING MOTOR/ GEAR WORM/RACK LEVER (Refer to Fig. 2-3-A)

1. Remove the 3 screws (1).
2. Remove the Chassis Main Ass'y.
3. Remove the Roller Ass'y.
4. Remove the Gear Roller.
5. Remove the Lumirror Washer.
6. Remove the Roller Cone.
7. Remove the Shaft Roller .
8. Remove the screw (2).
9. Remove the Loading Motor PCB Ass'y.
10. Remove the screw (3).
11. Remove the Loading Motor.
12. Remove the Gear Worm.
13. Remove the Rack Lever.

DISASSEMBLY INSTRUCTIONS

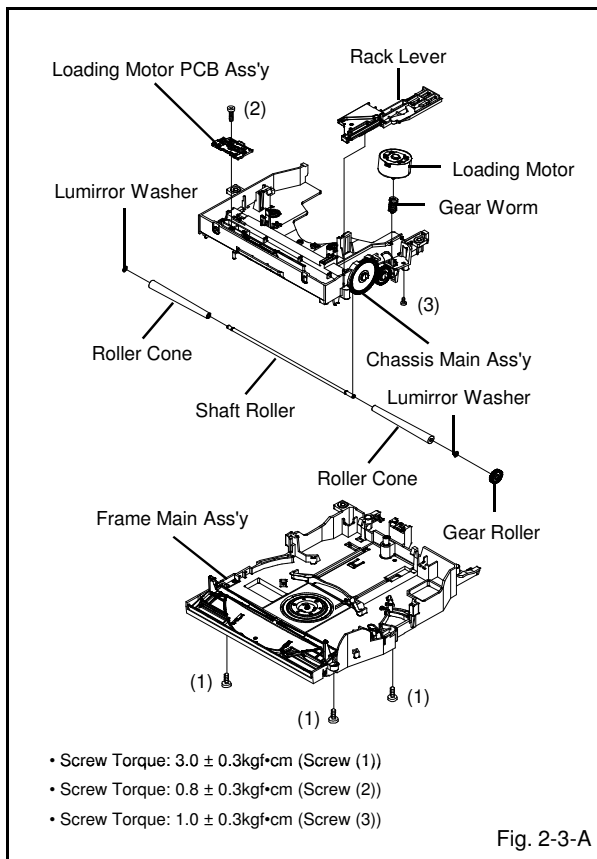


Fig. 2-3-A

NOTE

1. In case of the Gear Worm installation, check if the value of the Fig. 2-3-B is correct.
2. When installing the wire of the Loading Motor PCB Ass'y, install it correctly as Fig. 2-2-C.
 Manual soldering conditions
 - Soldering temperature: $350 \pm 5^\circ\text{C}$
 - Soldering time: Within 4 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
3. In case of the Roller Cone installation, install correctly as Fig. 2-3-D.
4. In case of the Lumirror Washer installation, install correctly as Fig. 2-3-E.
5. In case of the Gear Roller installation, check if the value of the Fig. 2-3-F is correct.
6. After the assembly of the Loader Sub Ass'y, hook the wire on the Loader Sub Ass'y as shown Fig. 2-3-G.

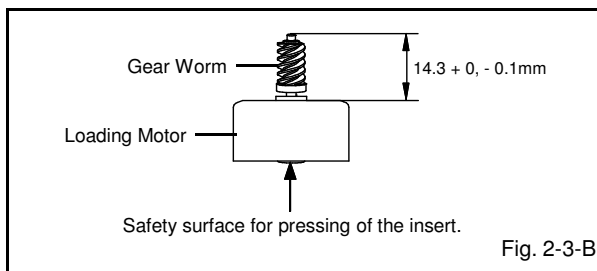


Fig. 2-3-B

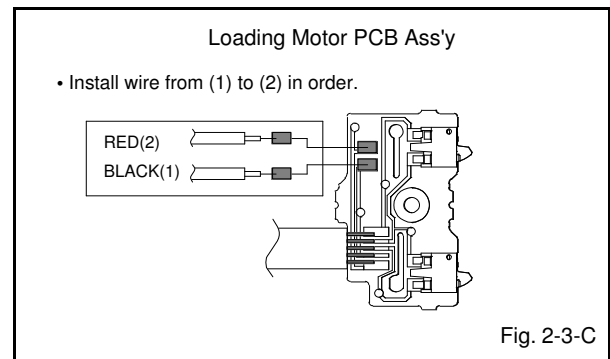


Fig. 2-3-C

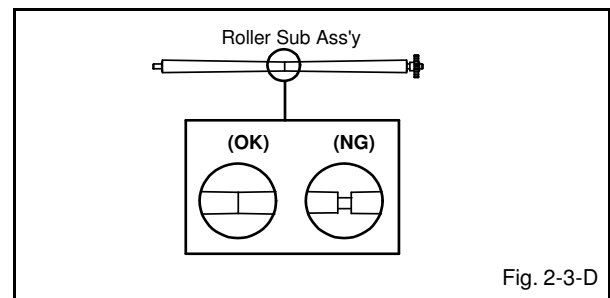


Fig. 2-3-D

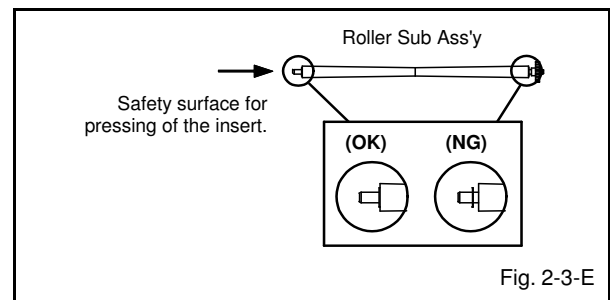


Fig. 2-3-E

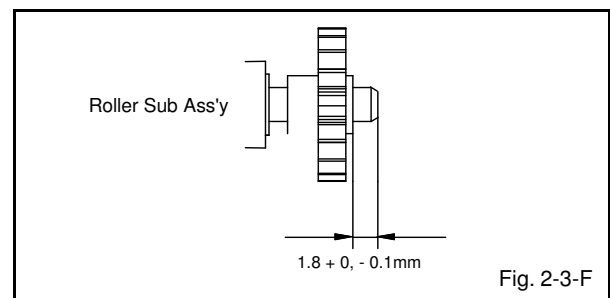


Fig. 2-3-F

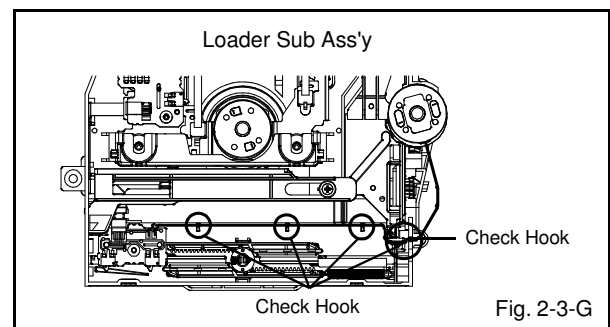


Fig. 2-3-G

DISASSEMBLY INSTRUCTIONS

2.4: SPRING SHUTTER/PLATE RETAINER/ RETAINER SHUTTER/COVER CLAMPER/ PLATE CLAMPER/MAGNET CLAMPER/ CLAMPER/GUIDE DISC/LEVER DISC/ SPRING LEVER GUIDE/SPRING LEVER DISC/ LEVER DISC (Refer to Fig. 2-4-A)

1. Unlock the support (1).
2. Remove the Retainer Shutter Ass'y.
3. Remove the Spring Shutter.
4. Remove the 3 screws (2).
5. Remove the Plate Retainer.
6. Remove the Retainer Shutter.
7. Unlock the 2 supports (3).
8. Remove the Cover Clamper.
9. Unlock the 3 supports (4).
10. Remove the Plate Clamper.
11. Remove the Magnet Clamper.
12. Remove the Clamper.
13. Unlock the support (5).
14. Remove the Guide Disc.
15. Remove the Lever Guide.
16. Remove the Spring Lever Guide.
17. Remove the Spring Lever Disc.
18. Remove the Lever Disc.

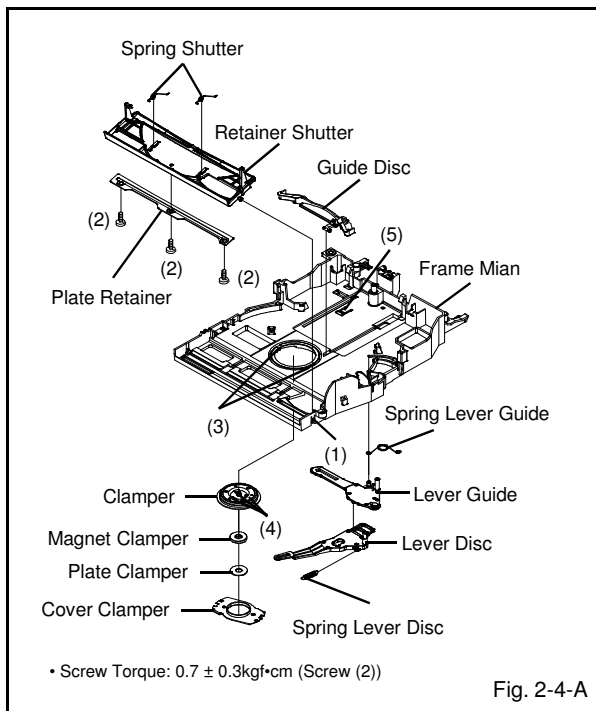


Fig. 2-4-A

NOTE

1. In case of the Retainer Shutter Ass'y installation, check if the value of the Fig. 2-4-B is correct.
2. In case of the Clamper Ass'y installation, check if the value of the Fig. 2-4-C is correct.

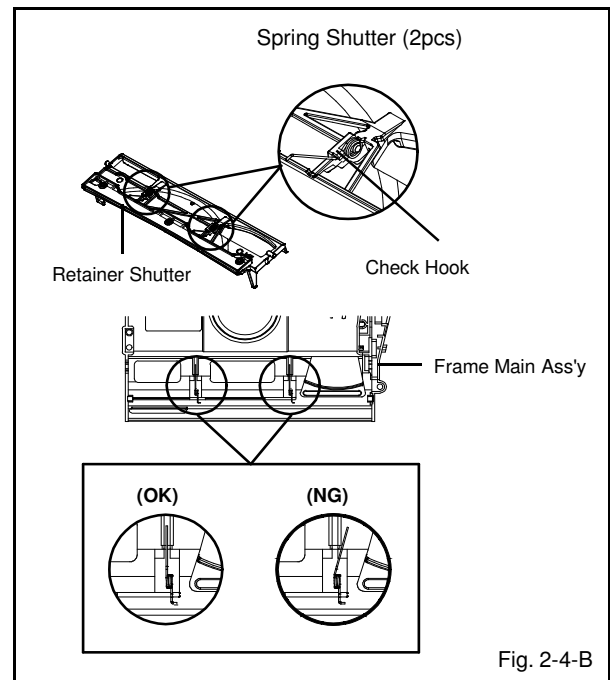


Fig. 2-4-B

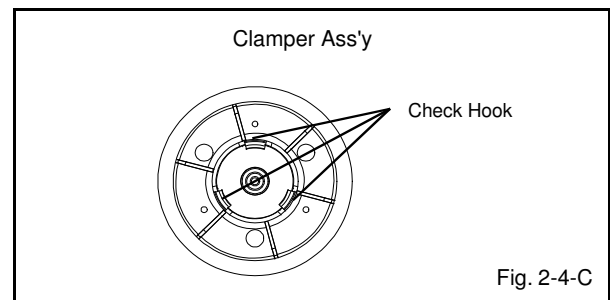


Fig. 2-4-C

2-5: FFC WIRE HANDLING

1. When installing the FFC, fold it correctly and install it as shown from Fig. 2-5-A to Fig. 2-5-D.

NOTE

1. Do not make the folding lines except the specified positions for the FFC.

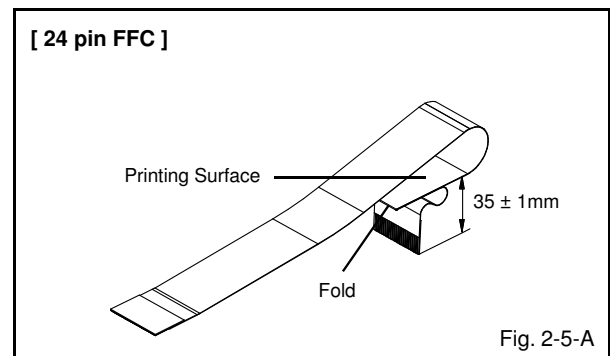


Fig. 2-5-A

DISASSEMBLY INSTRUCTIONS

Install the position (A) and (B)

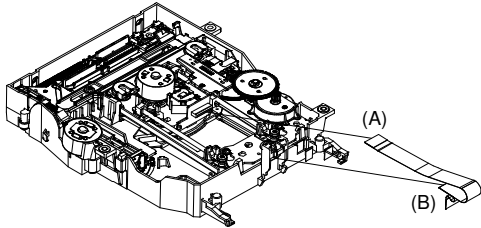


Fig. 2-5-B

[4 pin FFC]

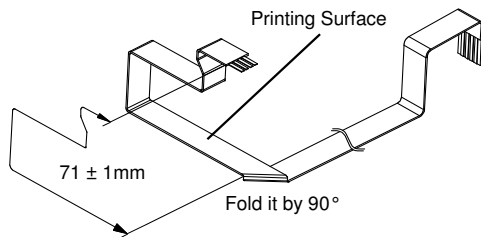


Fig. 2-5-C

[5 pin FFC]

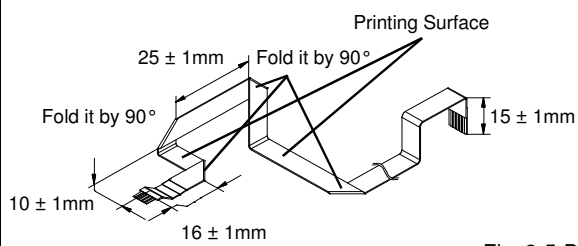


Fig. 2-5-D

DISASSEMBLY INSTRUCTIONS

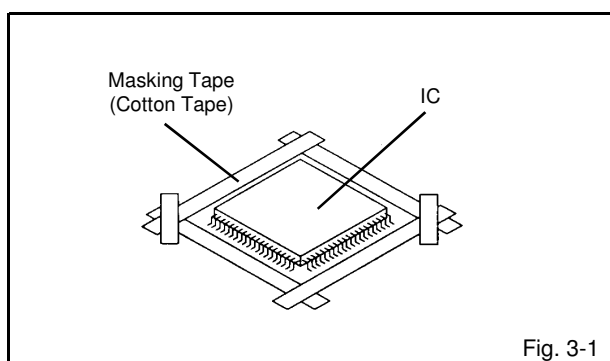
3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. (Refer to Fig. 3-1.)

NOTE

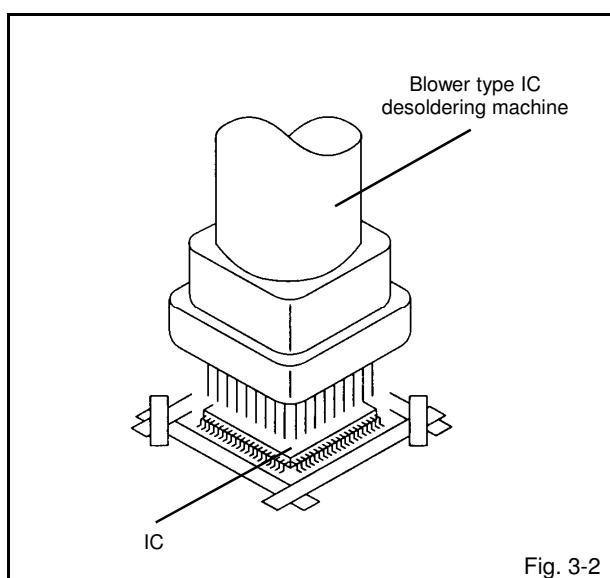
Masking is carried out on all the parts located within 10 mm distance from IC leads.



2. Heat the IC leads using a blower type IC desoldering machine. (Refer to Fig. 3-2.)

NOTE

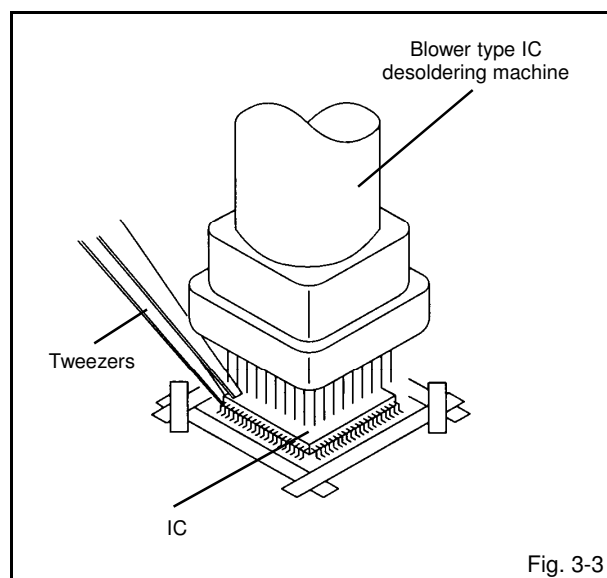
Do not rotate or move the IC back and forth, until IC can move back and forth easily after desoldering the leads completely.



3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. (Refer to Fig. 3-3.)

NOTE

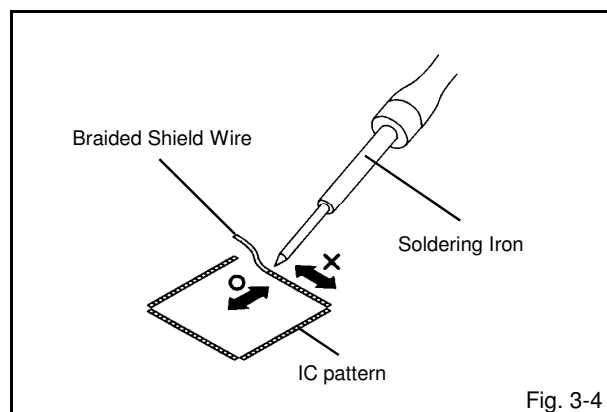
Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.



4. Peel off the Masking Tape.
5. Absorb the solder left on the pattern using the Braided Shield Wire. (Refer to Fig. 3-4.)

NOTE

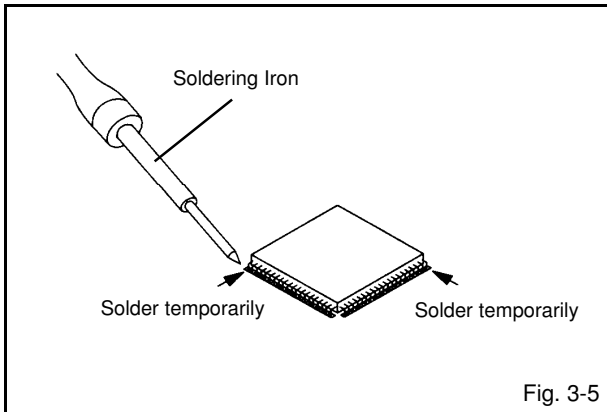
Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.



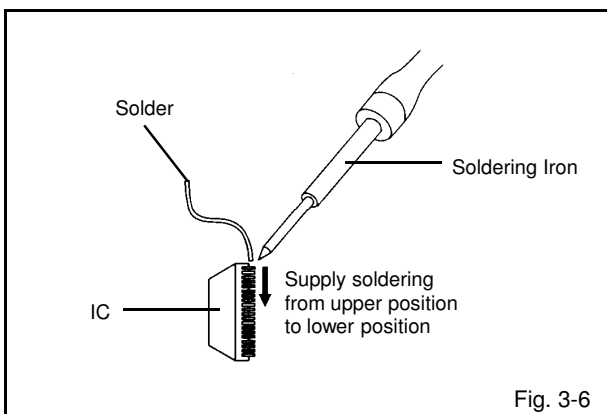
DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. (Refer to Fig. 3-5.)



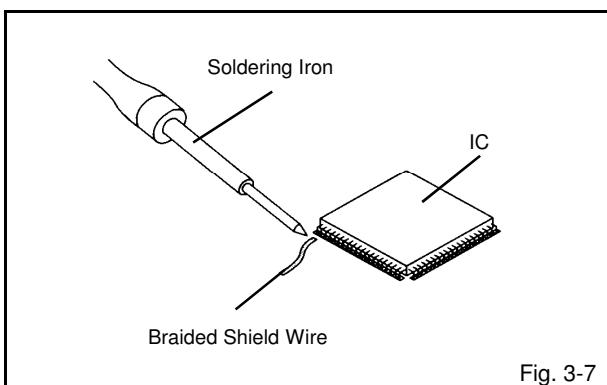
2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. (Refer to Fig. 3-6.)



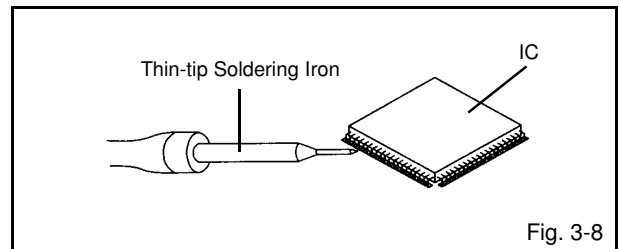
3. Absorb the solder left on the lead using the Braided Shield Wire. (Refer to Fig. 3-7.)

NOTE

Do not absorb the solder to excess.



4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. (Refer to Fig. 3-8.)



5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass. Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

NOTE

When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

SERVICE MODE LIST

This unit is provided with the following SERVICE MODES so you can repair, examine and adjust easily.

- Do not feel after other MENU.

1. Check of the SUM DATA and MICON VERSION on the screen.

1-1: Press the SETUP/TV MENU ---> 0027 button on the remote control to select "Version Info".



Fig. 1-1

1-2: Press the ENTER button on the remote control.

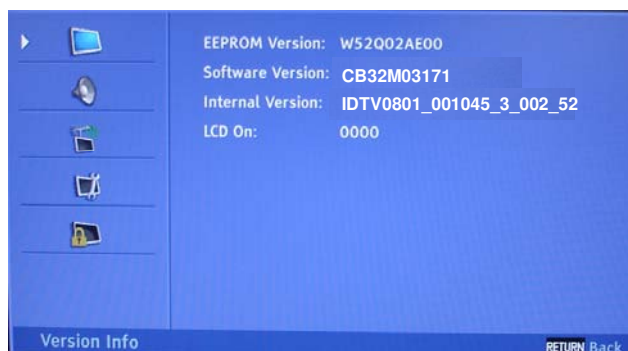


Fig. 1-2

2. DVD Initialize Data.

2-1: Press the SETUP/TV MENU ---> 0027 button on the remote control to select "DVD Initialize".

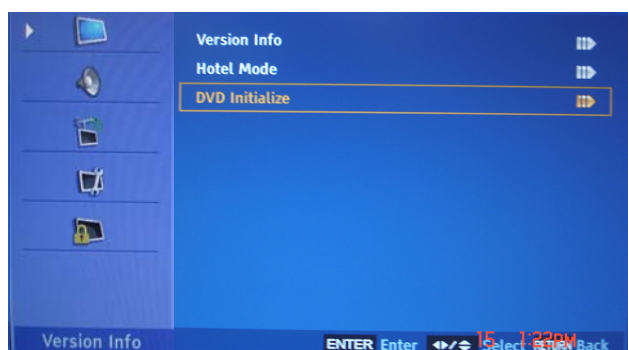


Fig. 2-1

2-2: Press the ENTER button on the remote control to select "OK".

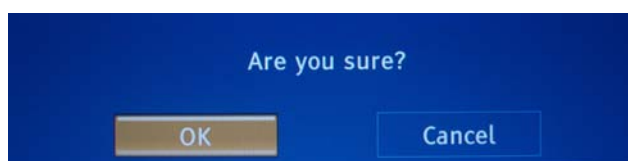
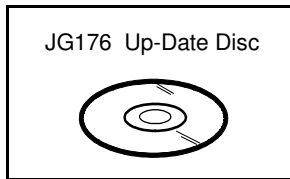


Fig. 2-2

SERVICING FIXTURES AND TOOLS



Ref. No.	Part No.	Parts Name	Parts Name
JG176	APJG176151	Up-Date Disc	Up-Date of the Firmware

RE-WRITE FOR DVD FIRMWARE

1. Turn on the power, and set the DVD mode.

1-1: Press the SETUP/ TV MENU ---> 0027 button on the remote control to select "Initial Settings".



Fig. 1-1

1-2: Press the ENTER button on the remote control to select "Options".



Fig. 1-2

1-3: Press the **i+** button on the remote control.

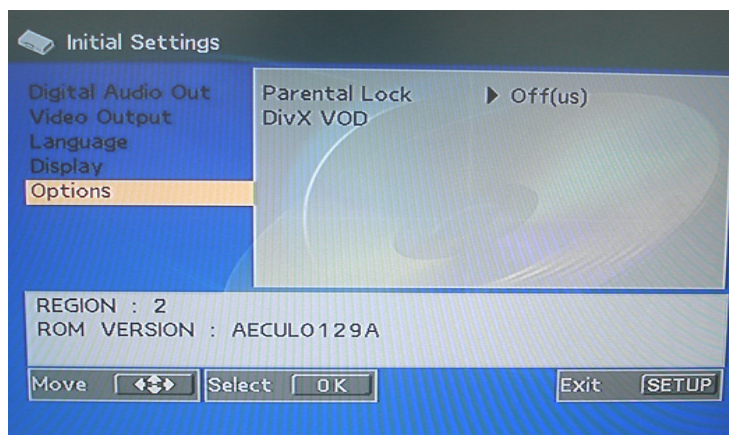
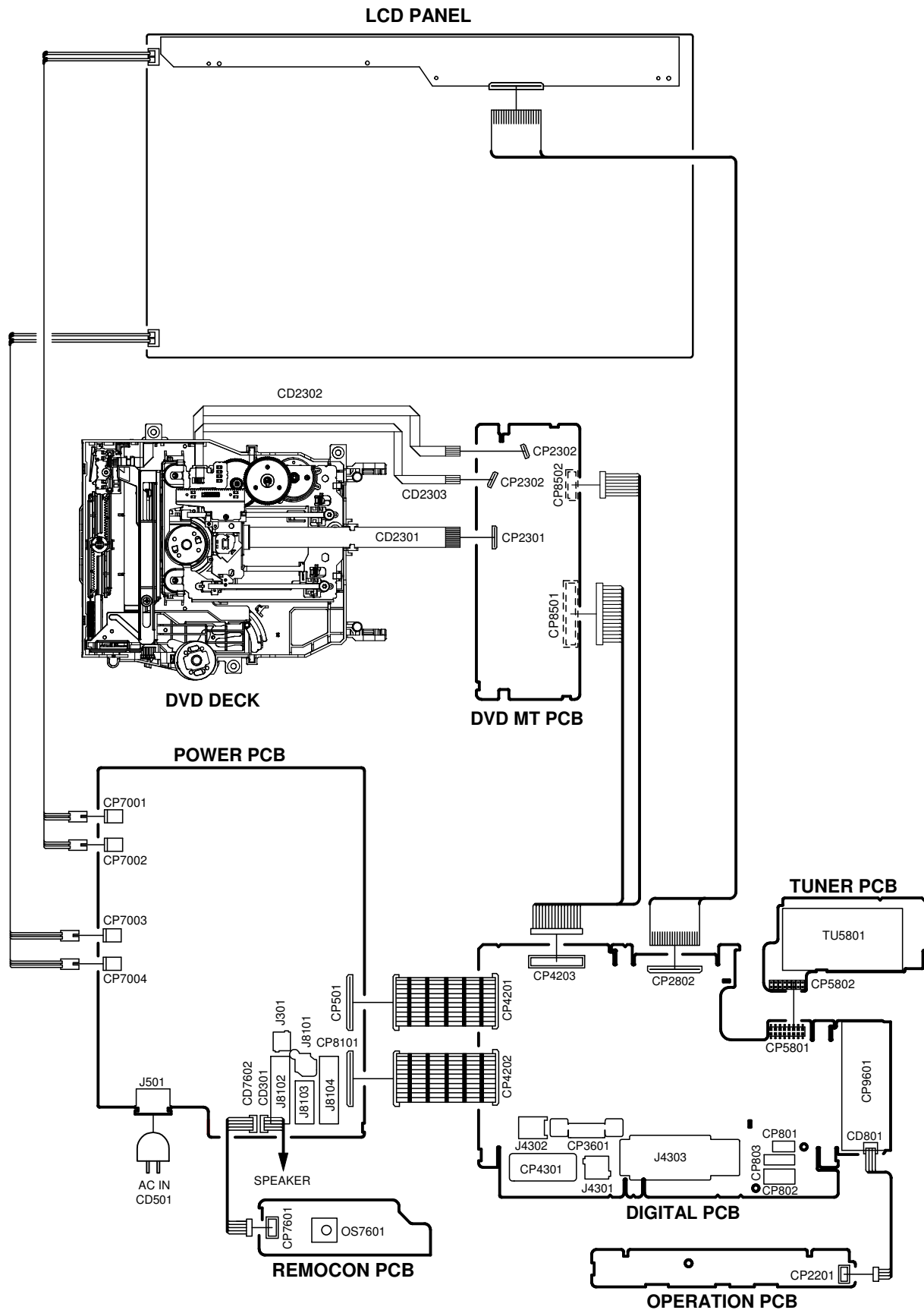


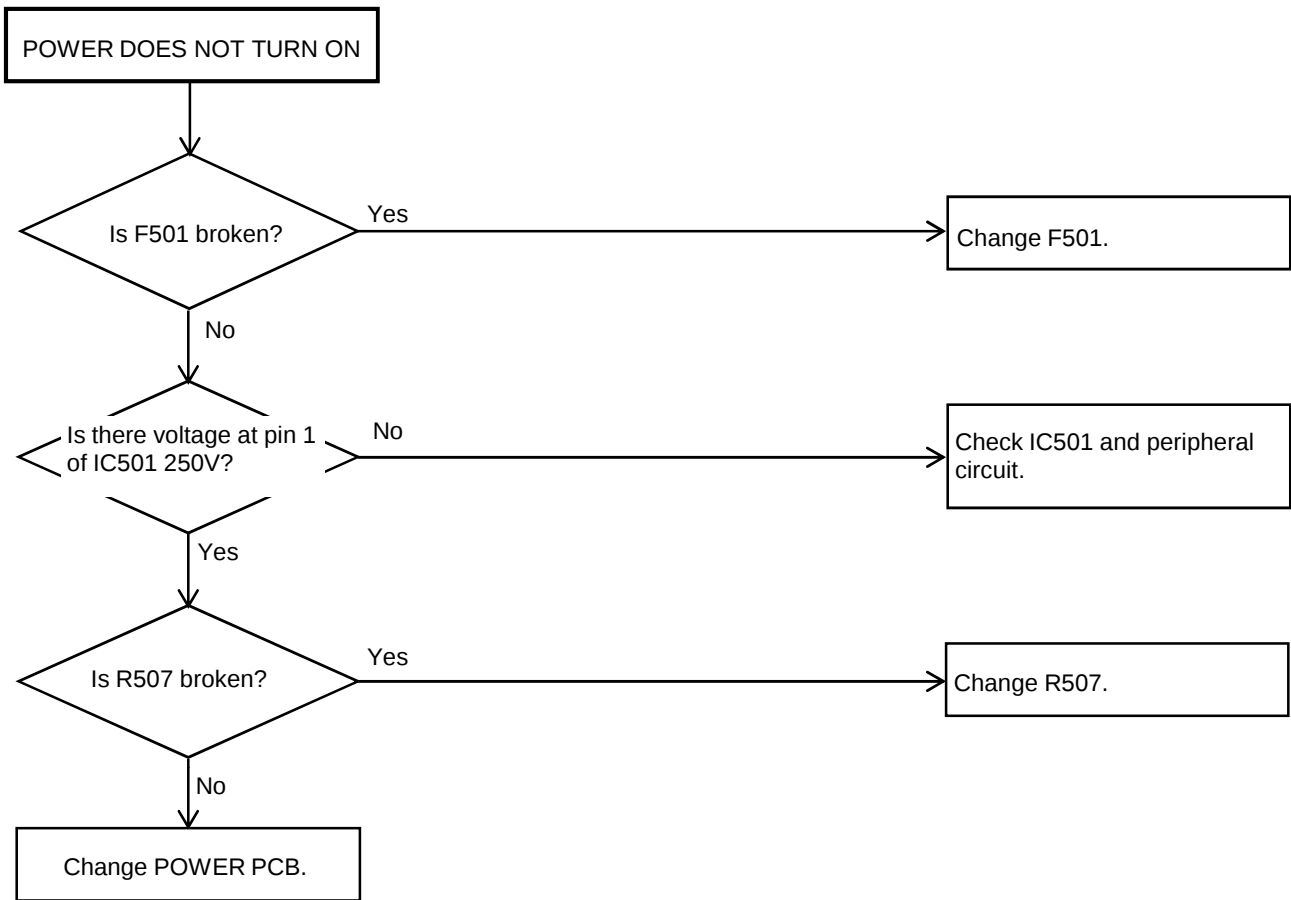
Fig. 1-3

PARTS LOCATION GUIDE (WIRING CONNECTION)

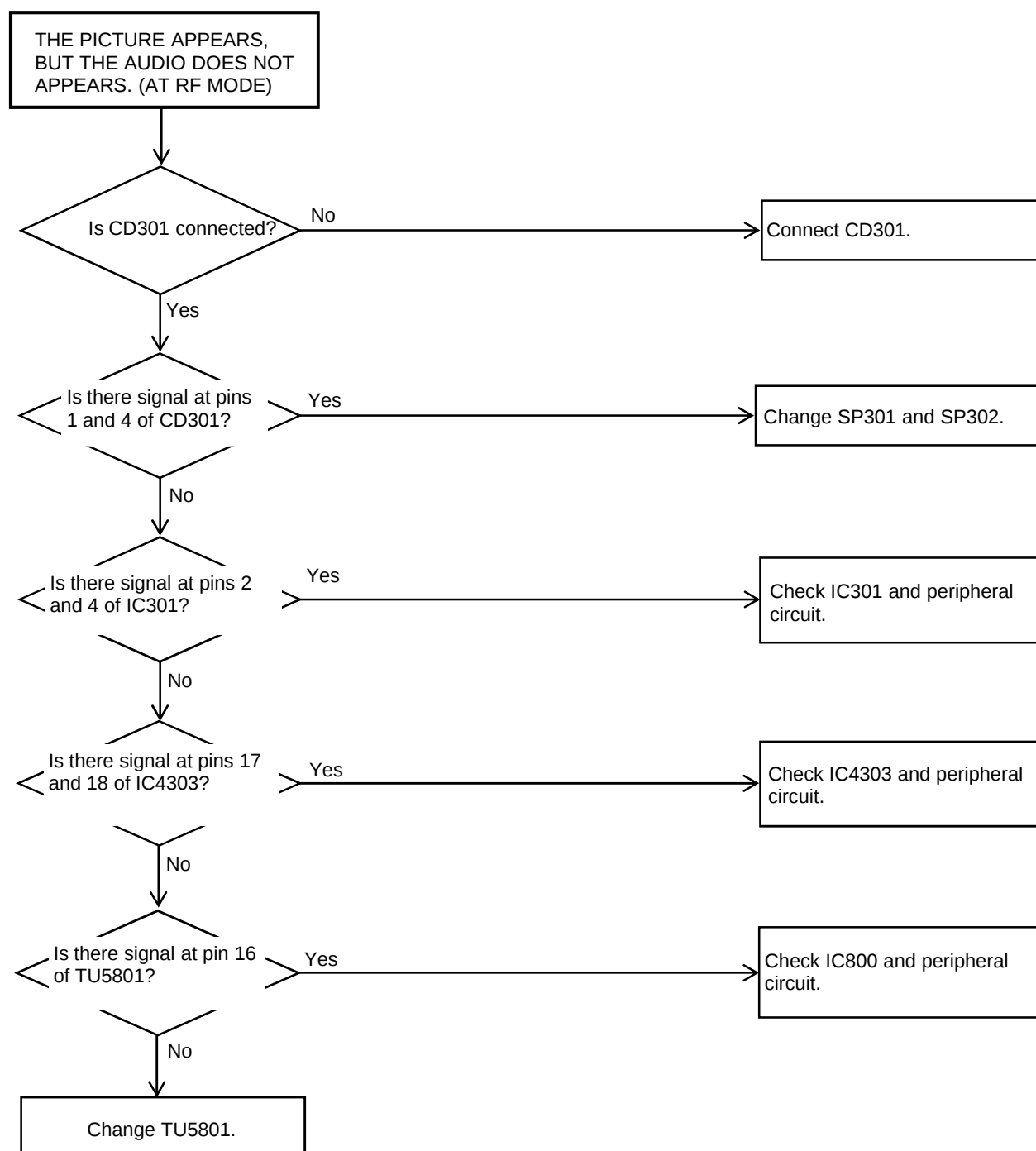


TROUBLESHOOTING GUIDE

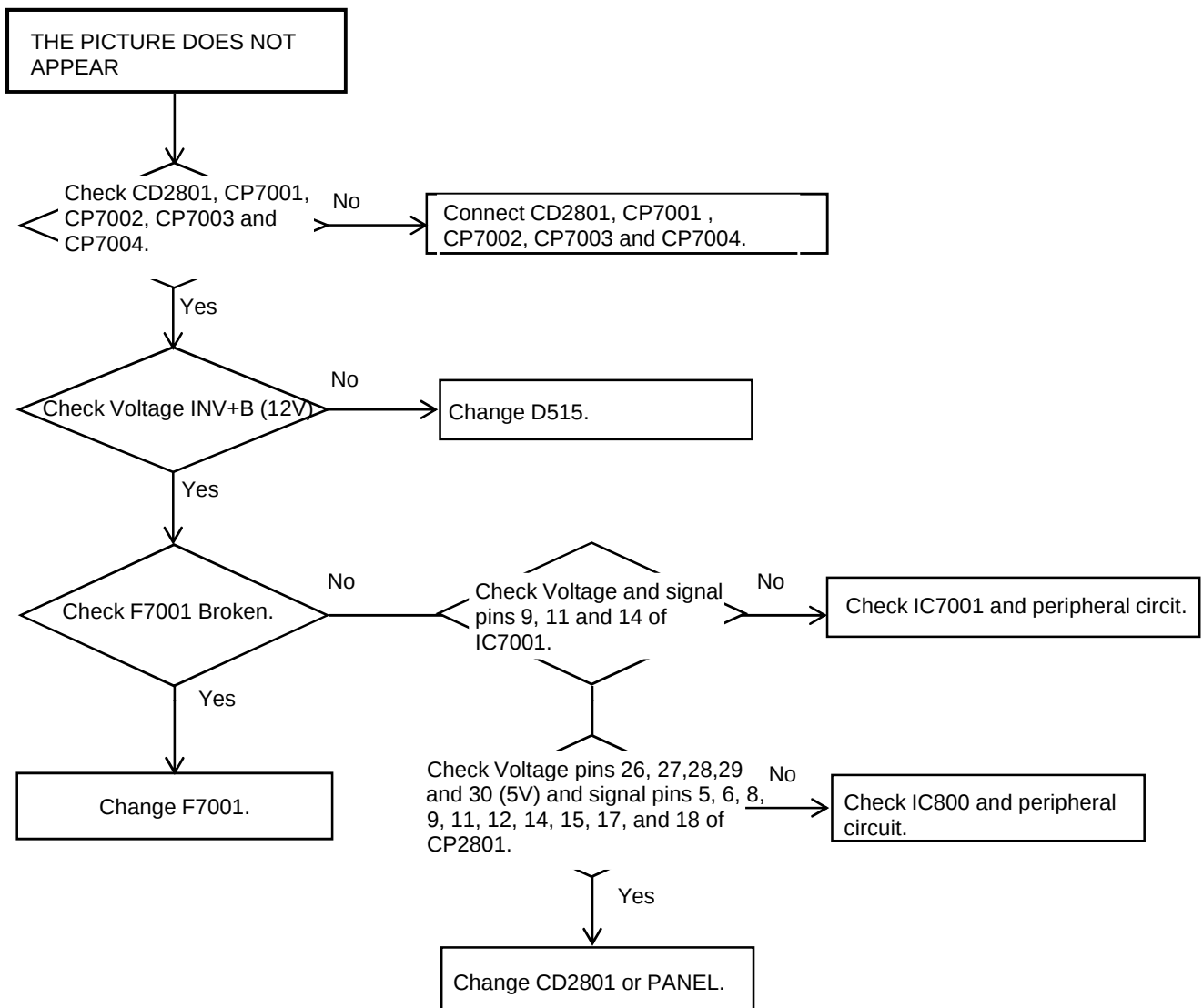
(LCD SECTION)



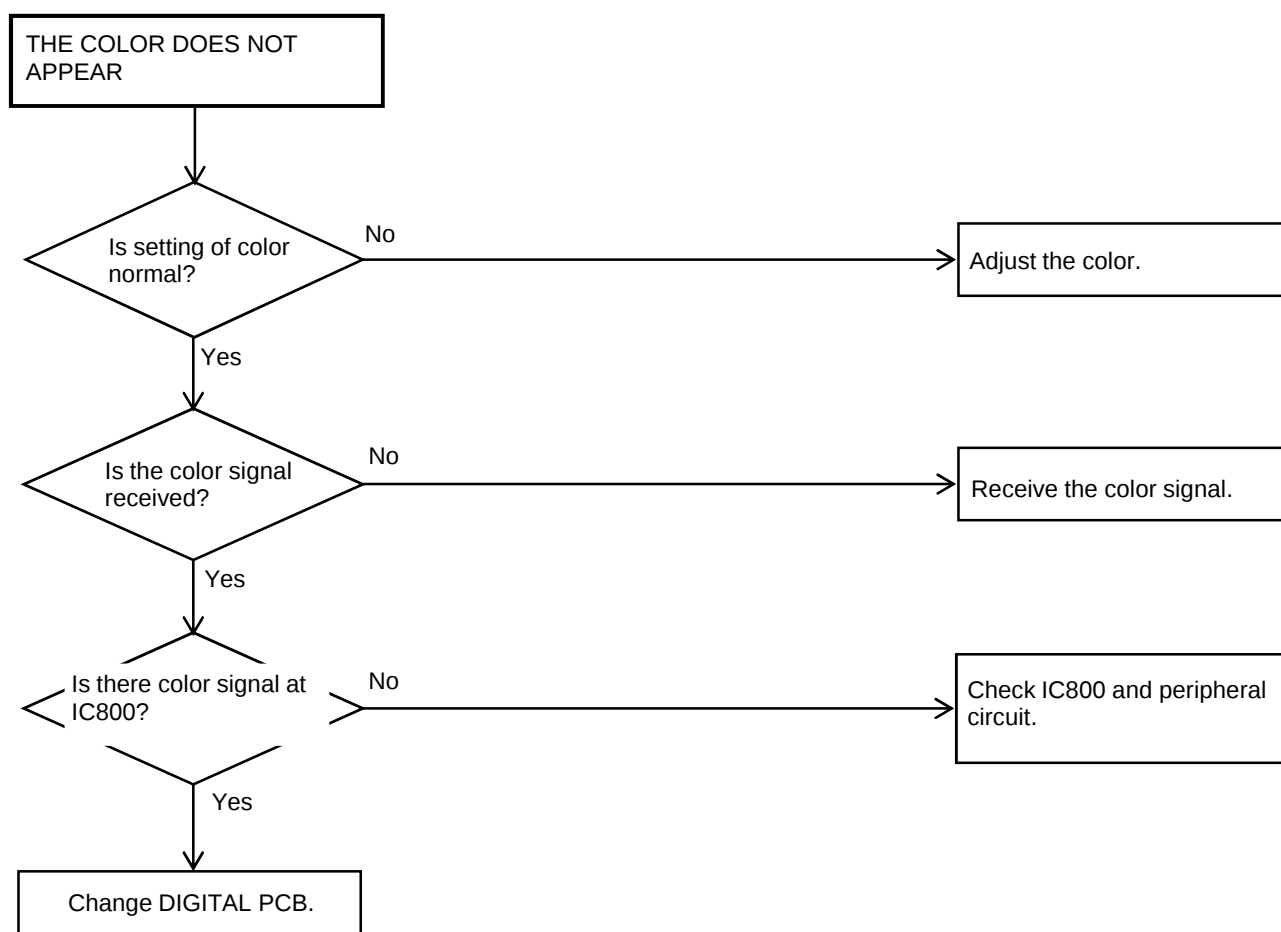
TROUBLESHOOTING GUIDE



TROUBLESHOOTING GUIDE

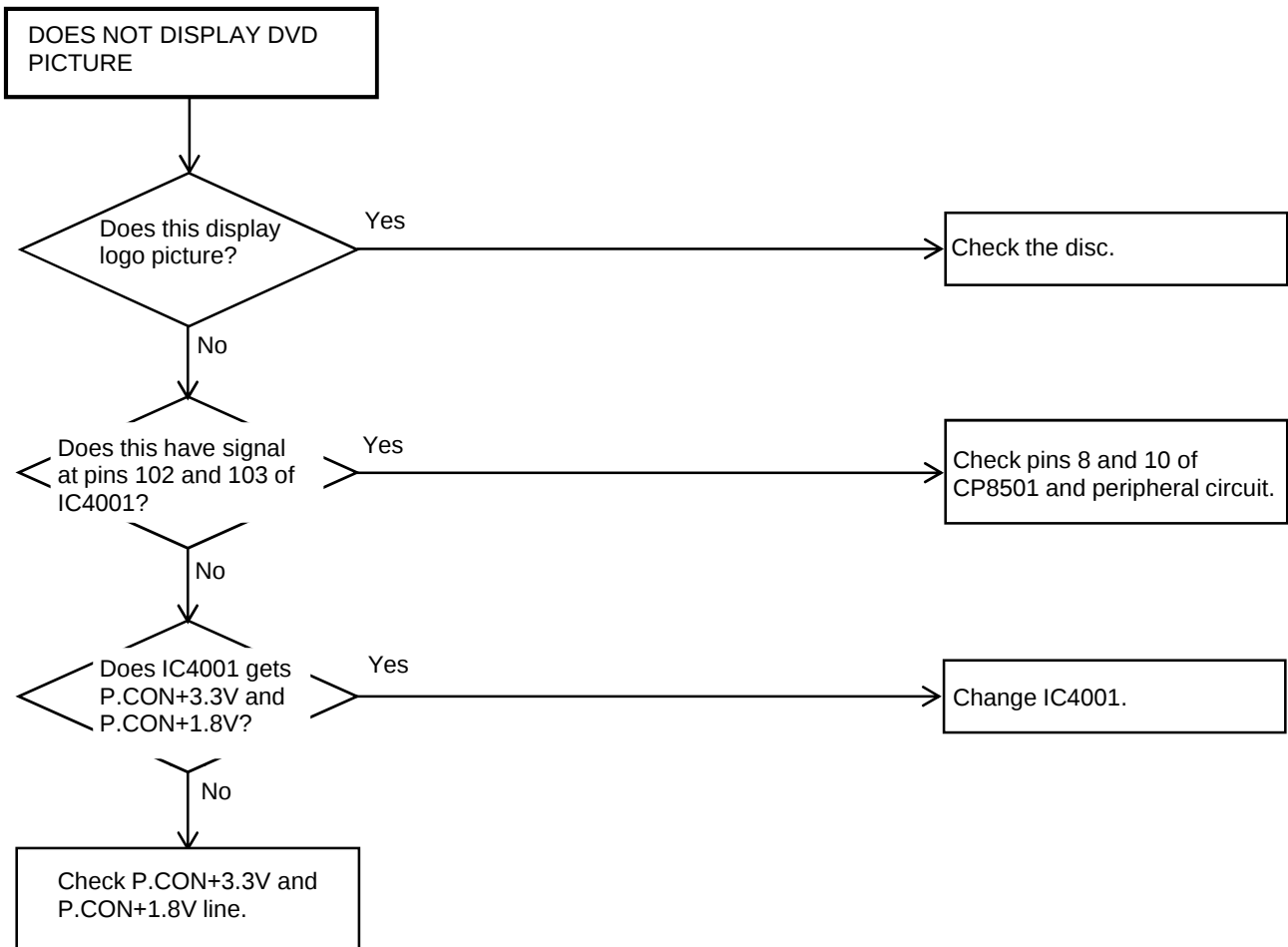


TROUBLESHOOTING GUIDE

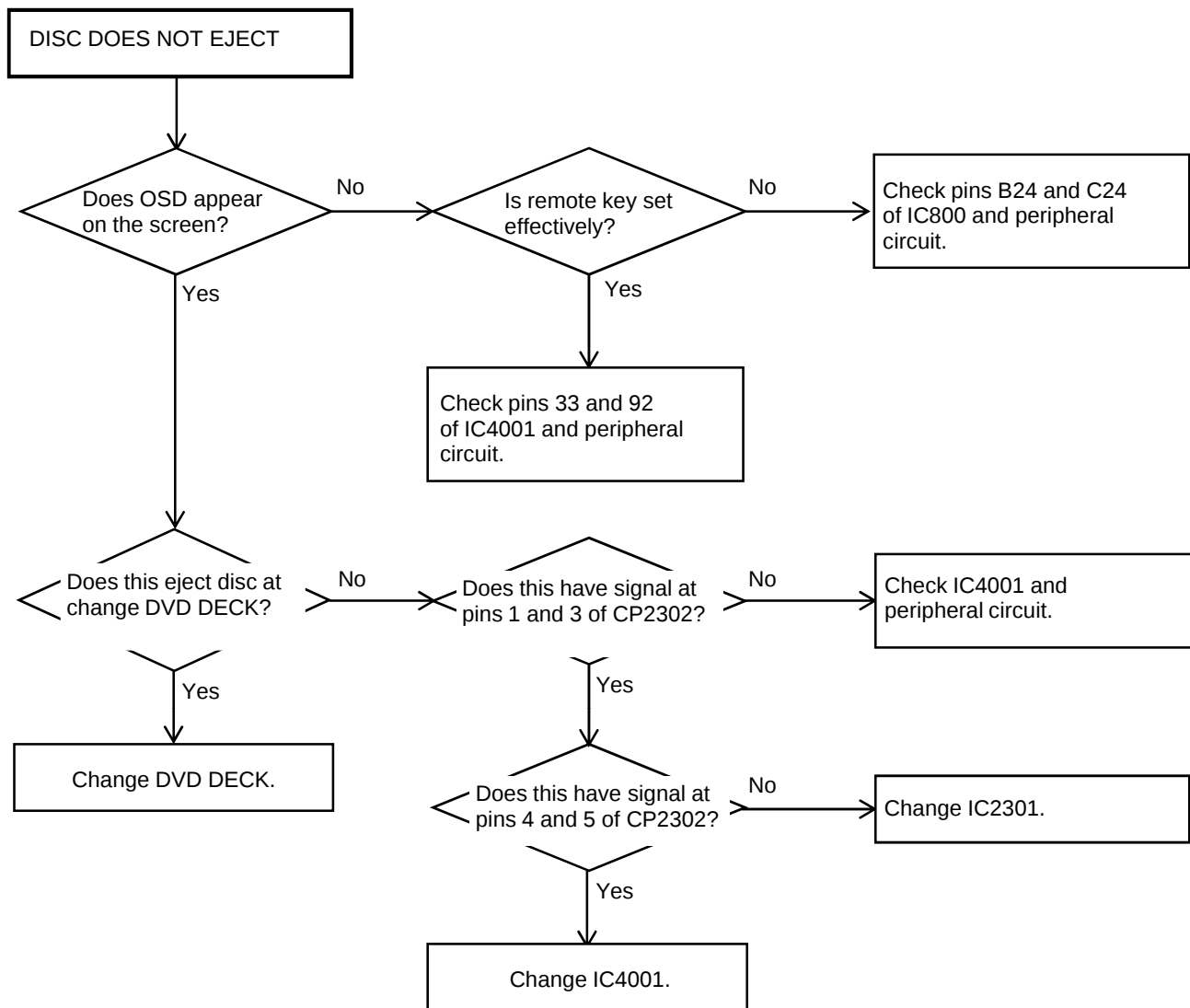


TROUBLESHOOTING GUIDE

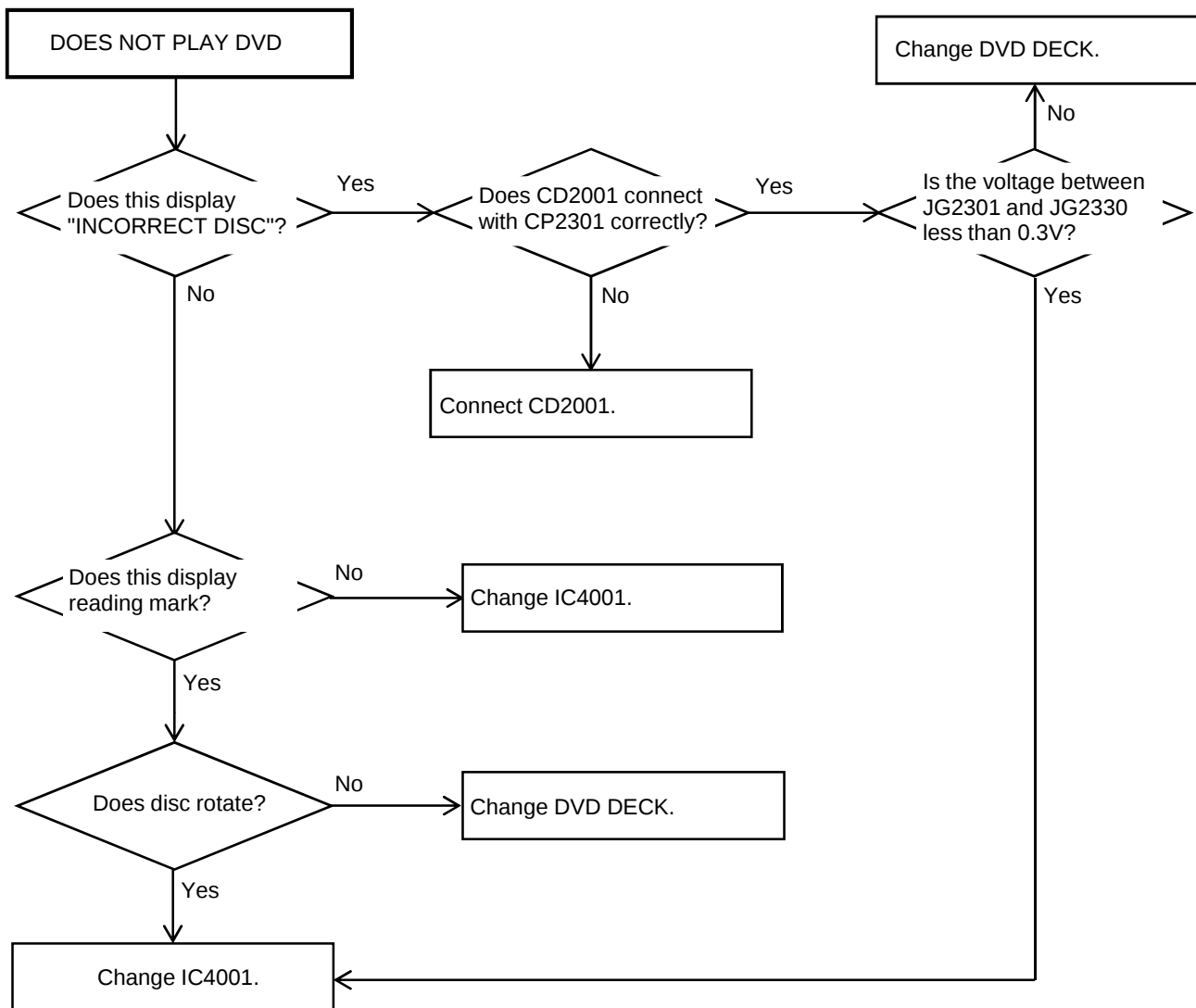
(DVD SECTION)



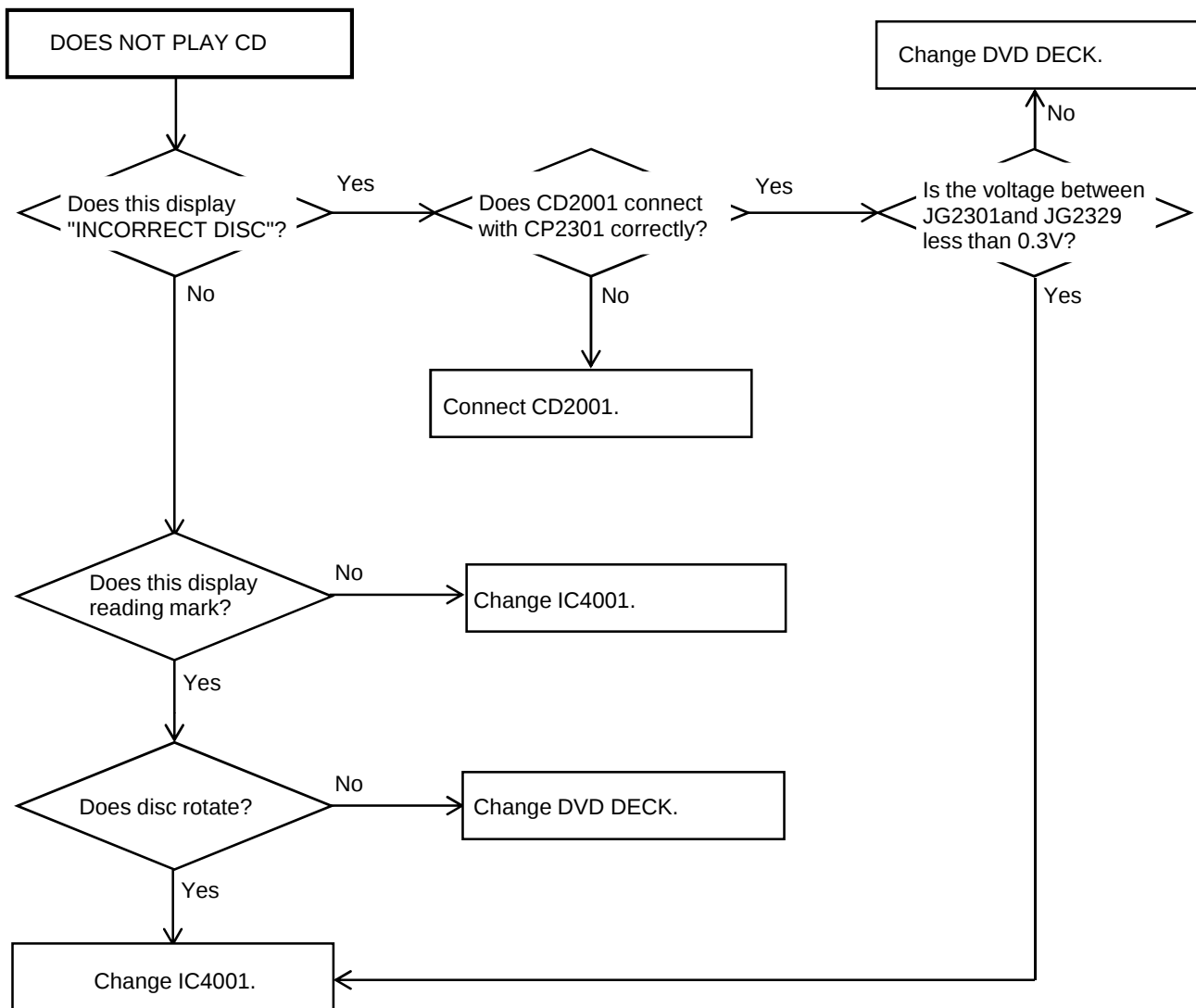
TROUBLESHOOTING GUIDE



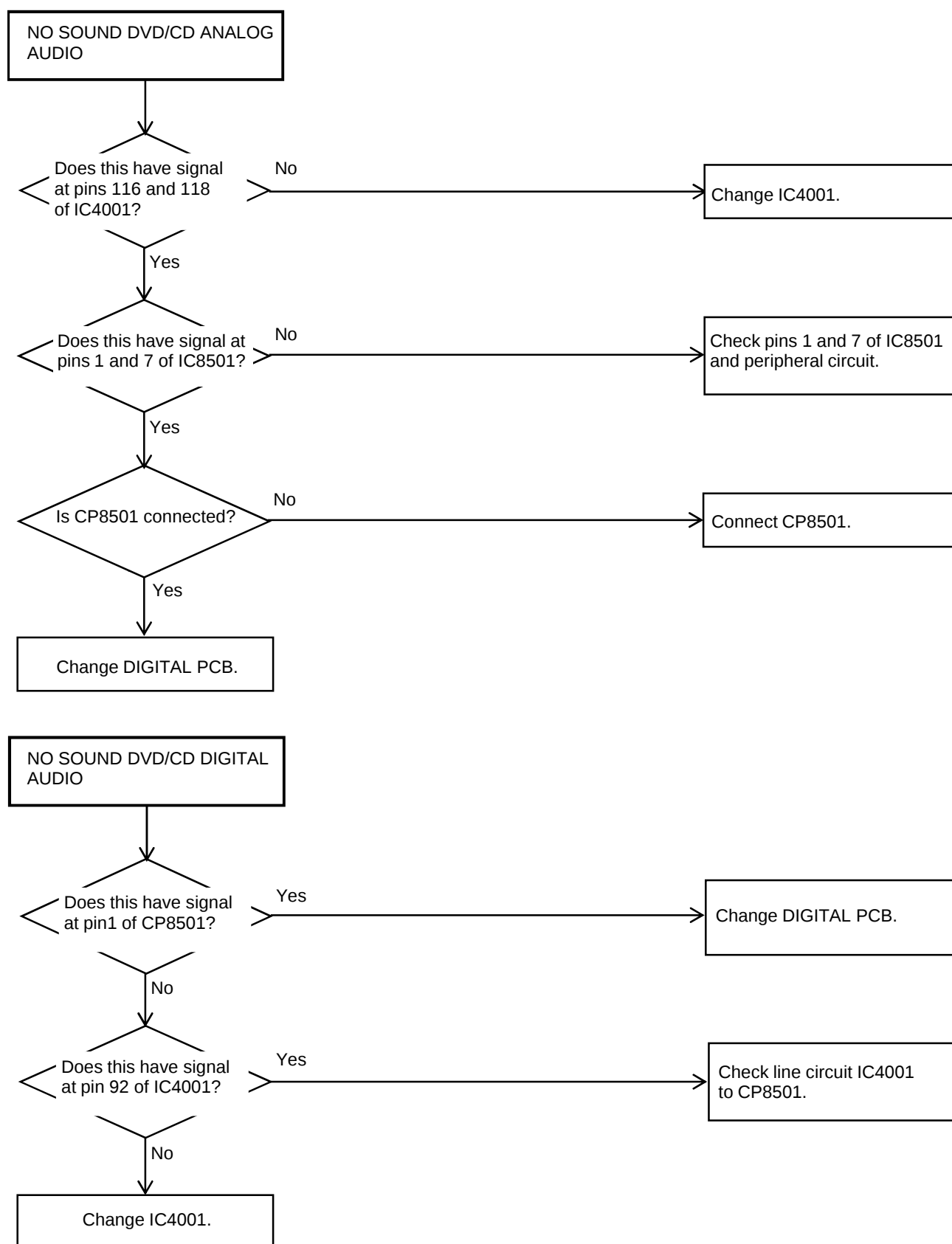
TROUBLESHOOTING GUIDE



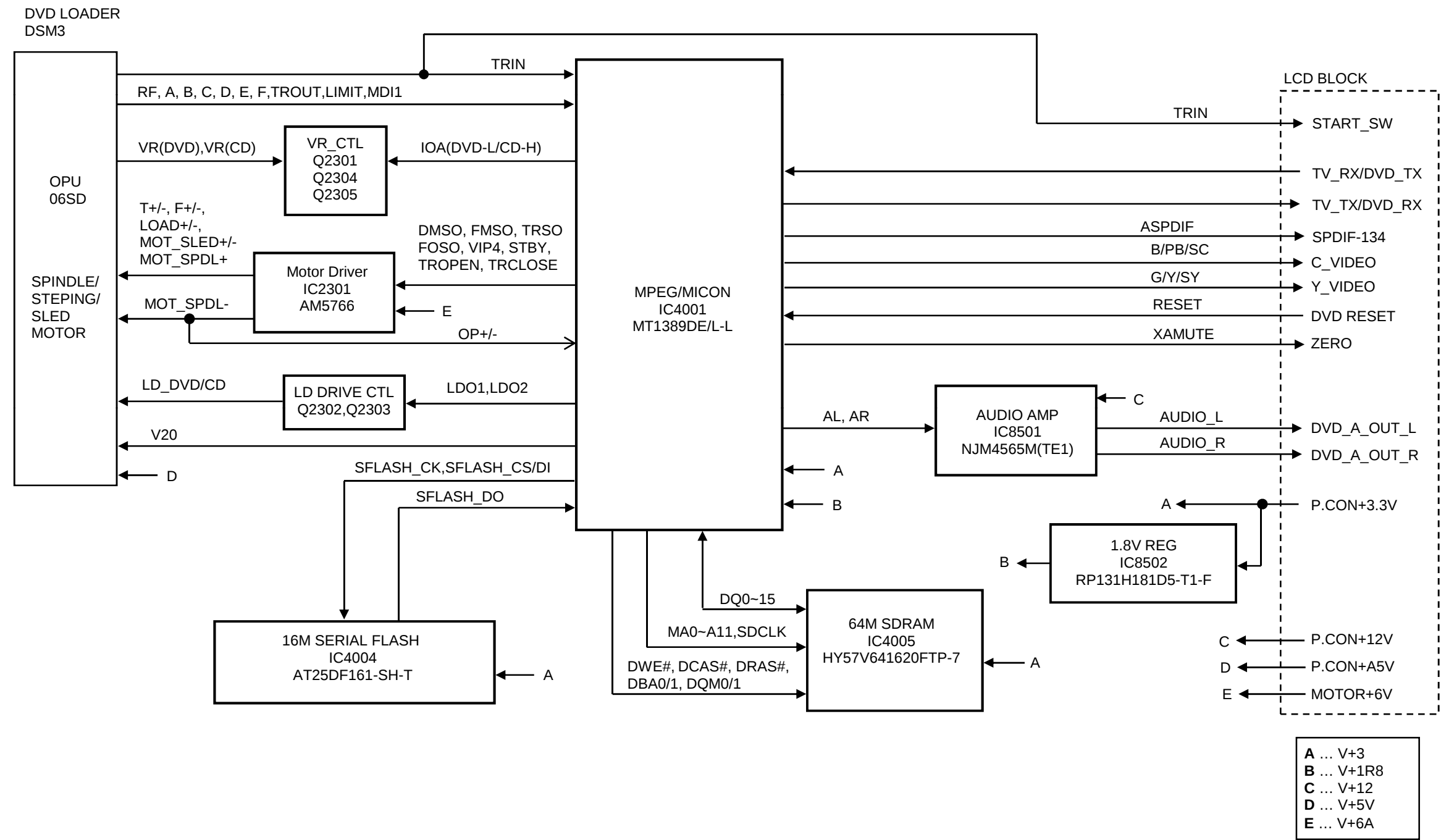
TROUBLESHOOTING GUIDE



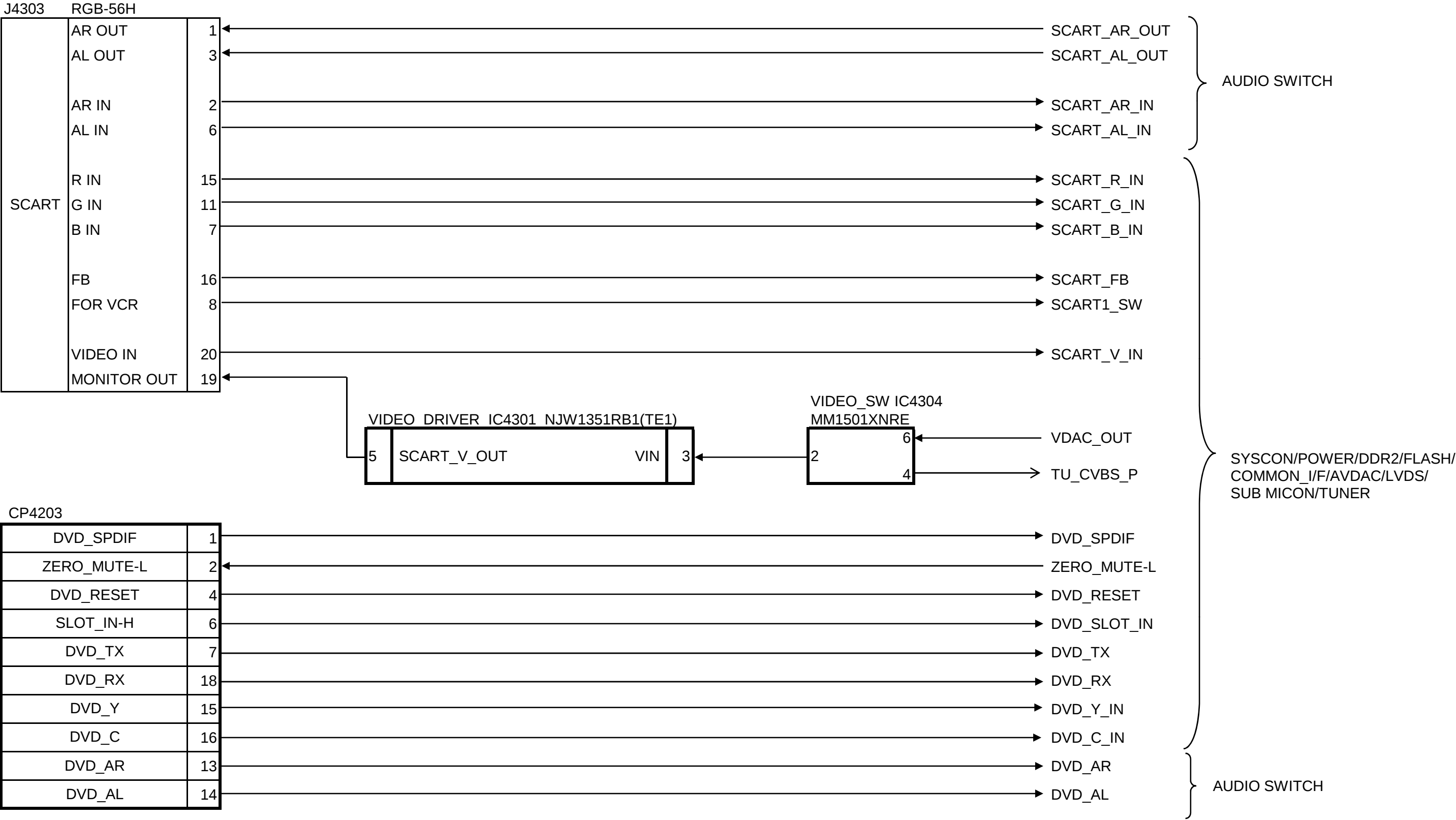
TROUBLESHOOTING GUIDE



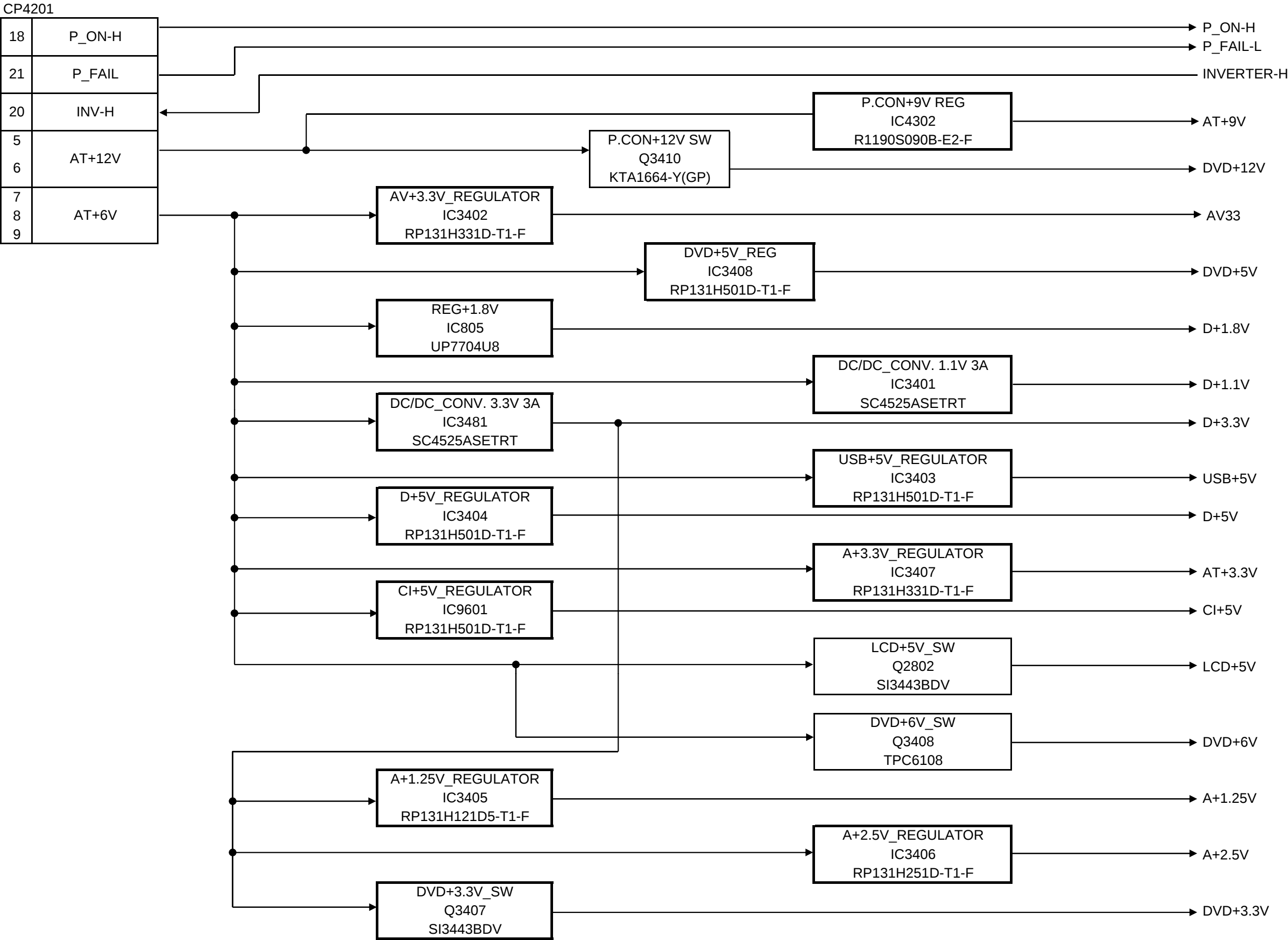
DVD BLOCK DIAGRAM



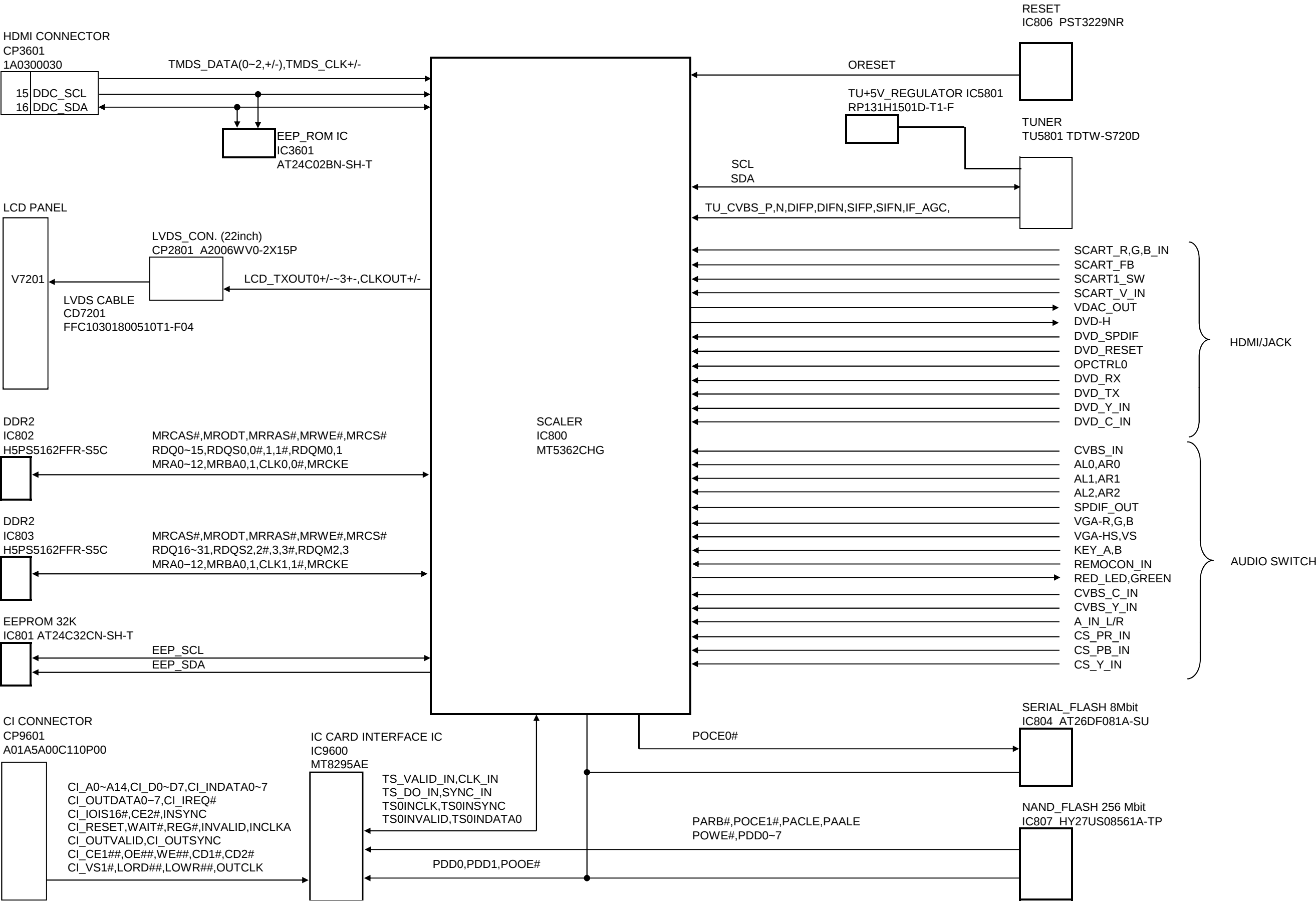
HDMI/JACK BLOCK DIAGRAM



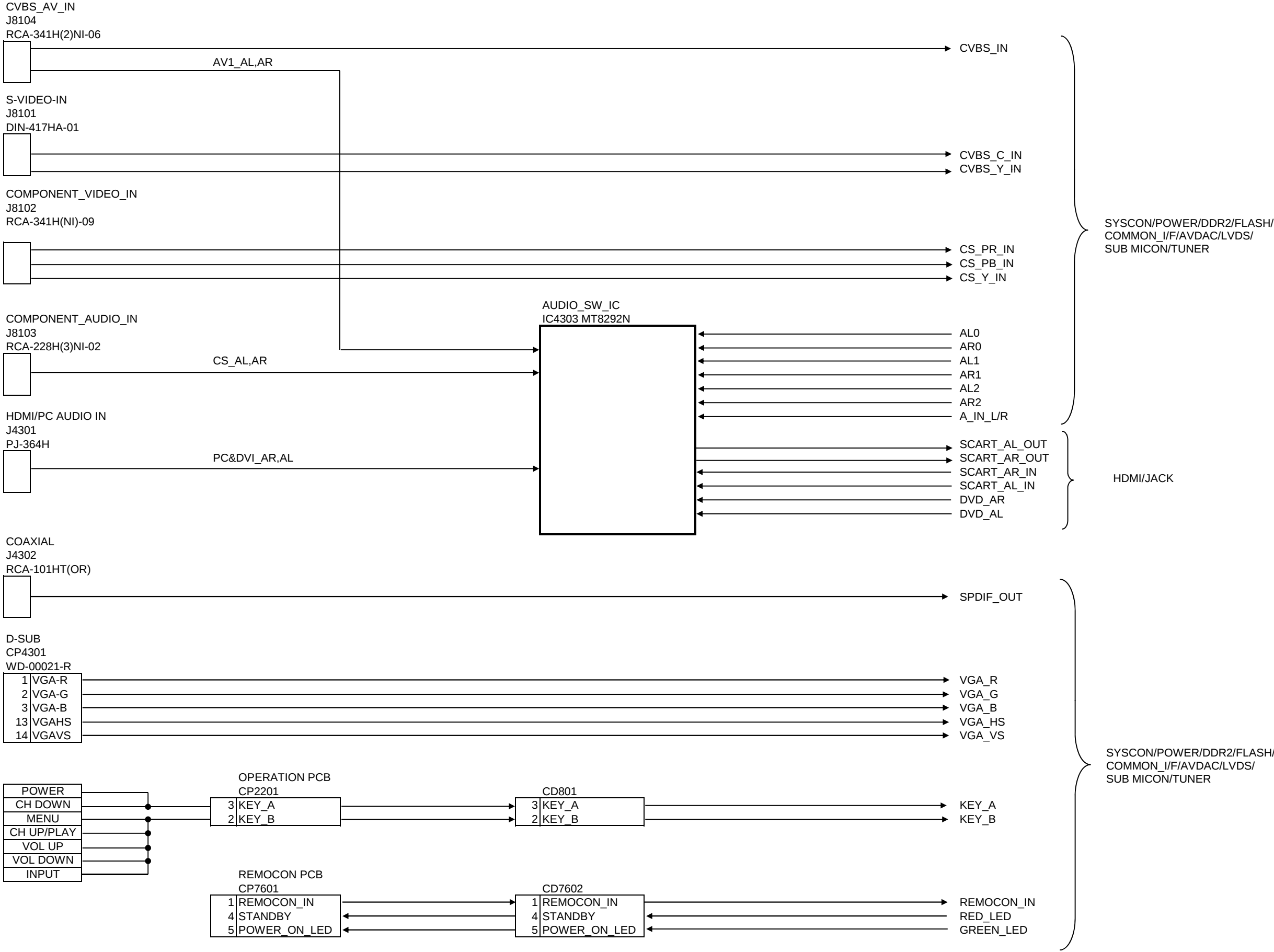
REGULATOR/EXTIO BLOCK DIAGRAM



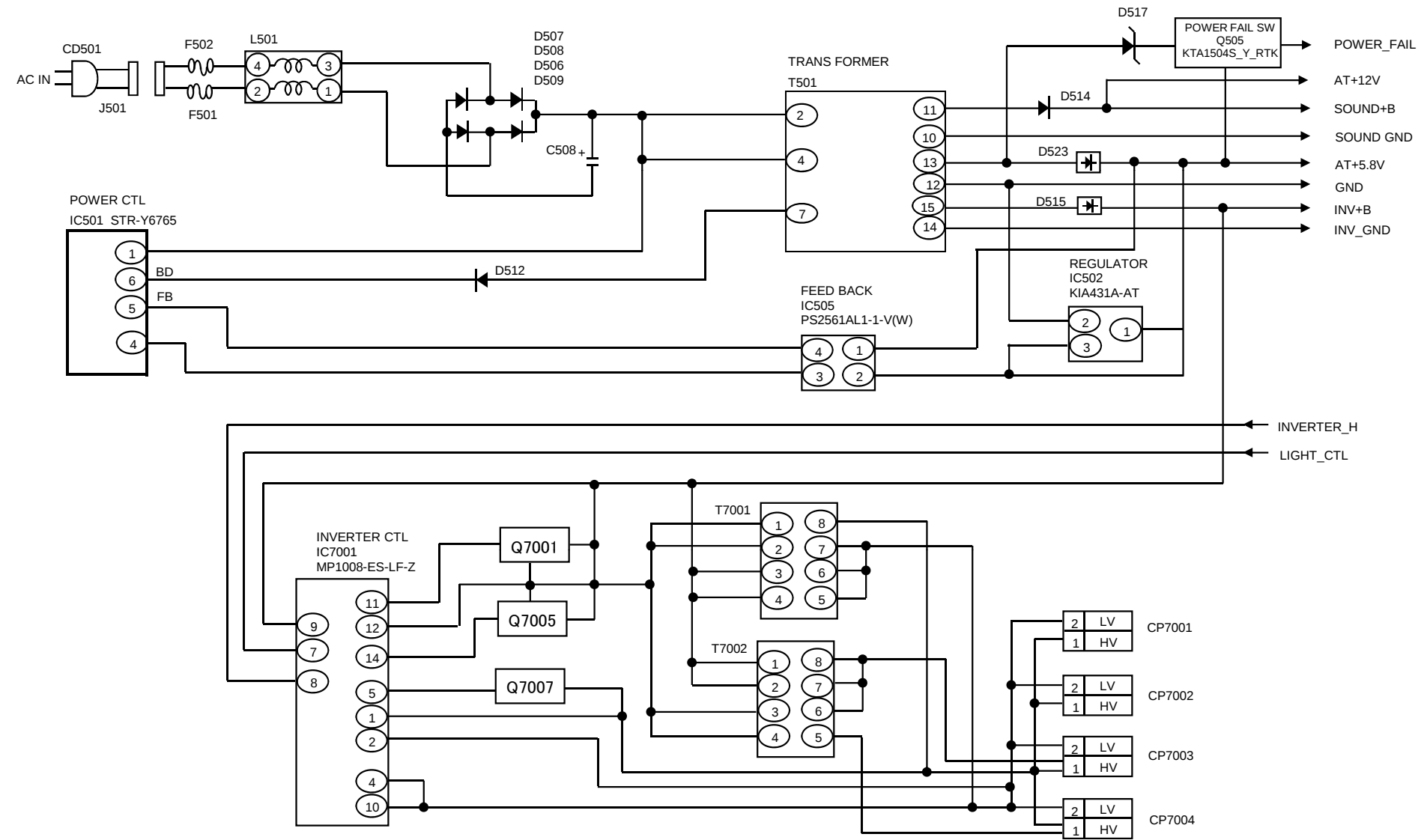
SYSCON/POWER/DDR2/FLASH/COMMON_I/F/AVDAC/LVDS/SUB MICON/TUNER BLOCK DIAGRAM



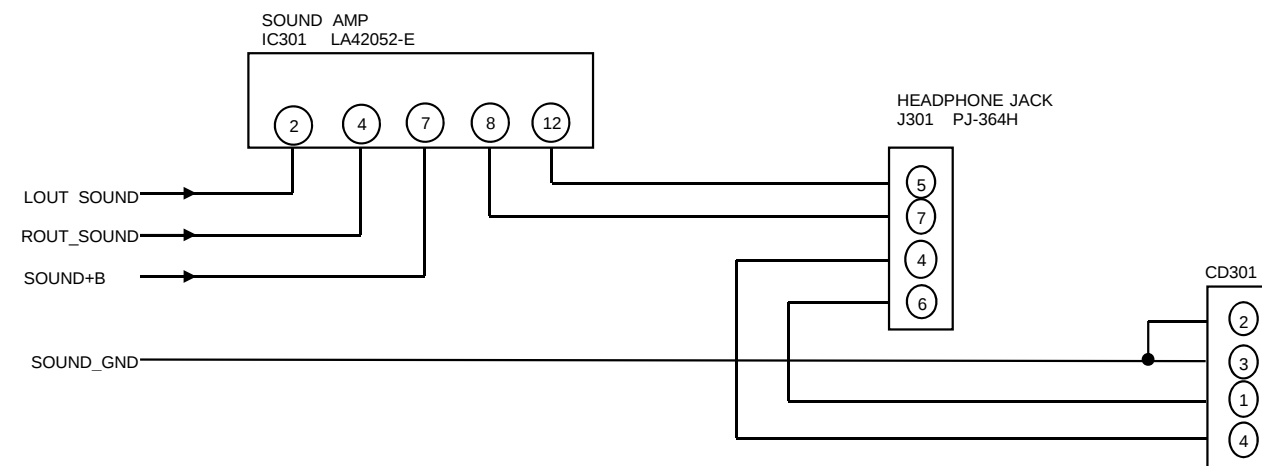
AUDIO SWITCH BLOCK DIAGRAM



POWER BLOCK DIAGRAM

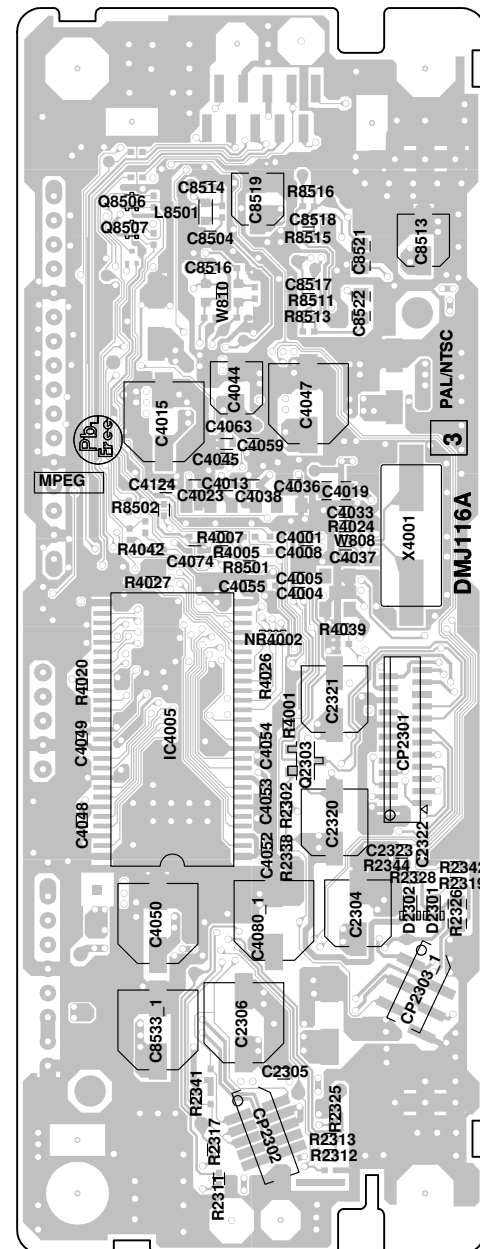


SOUND AMP BLOCK DIAGRAM

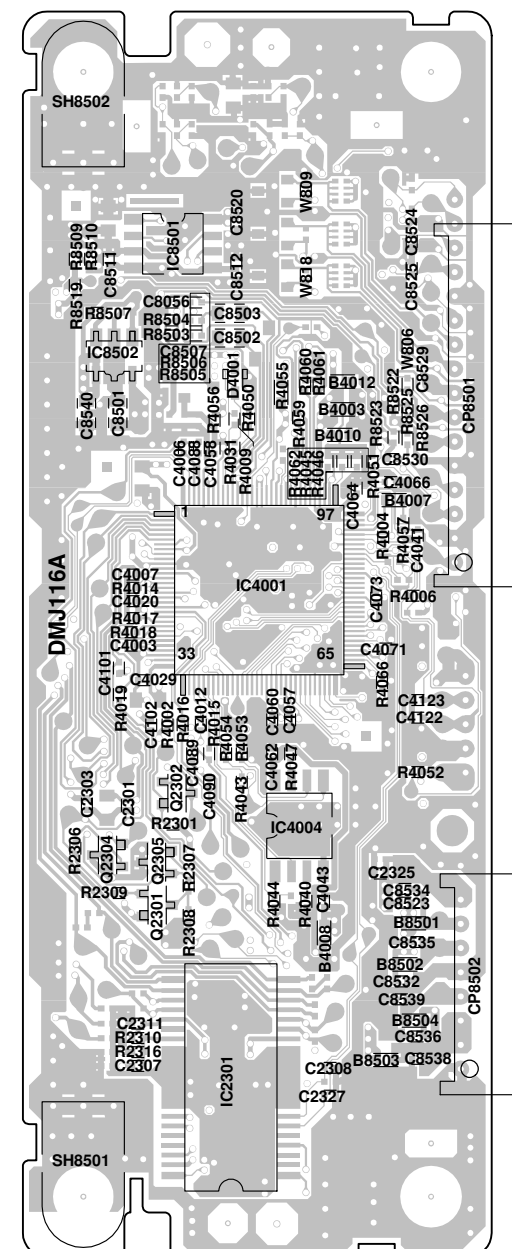


PRINTED CIRCUIT BOARDS

DVD MT (TOP SIDE)

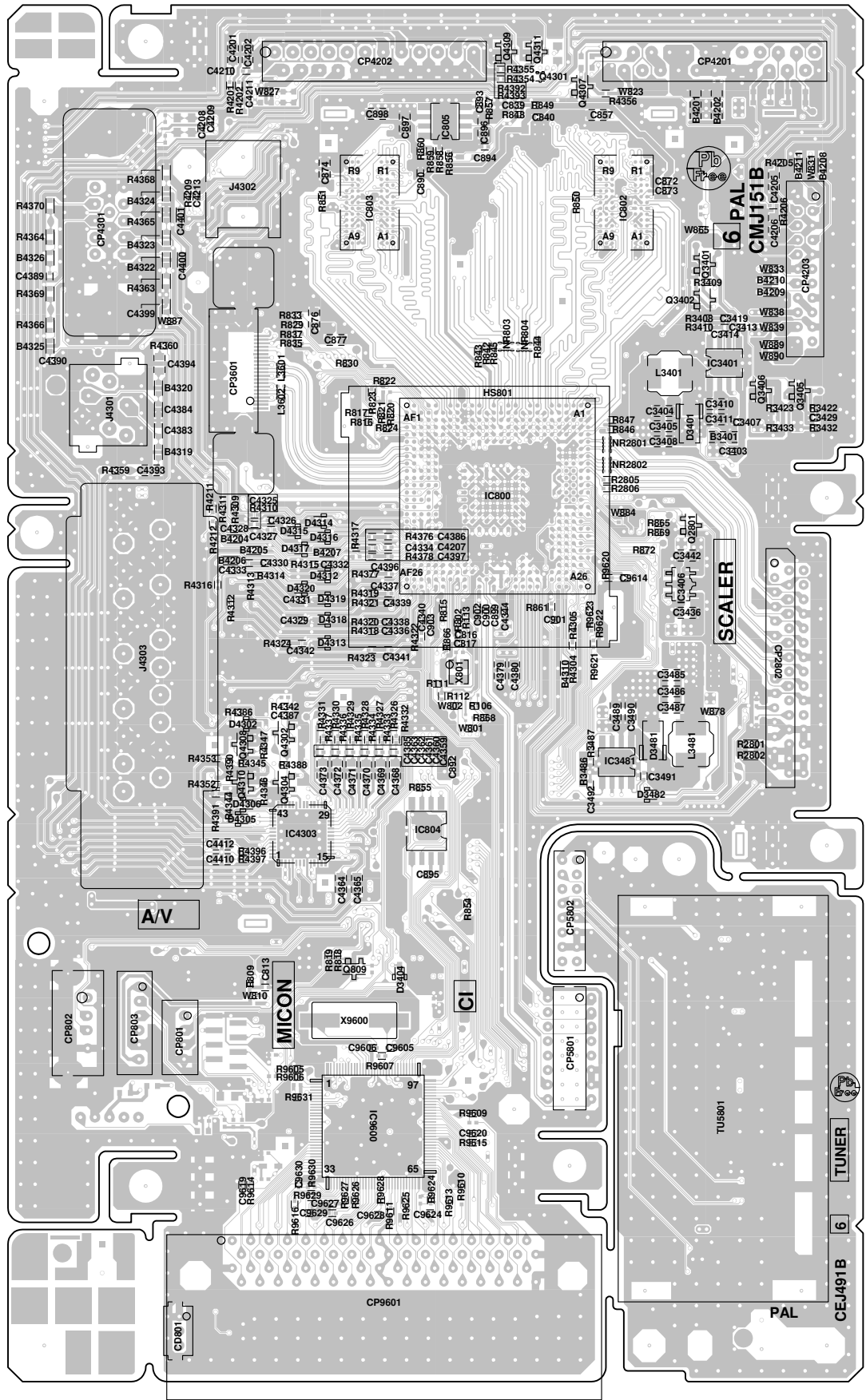


DVD MT (BOTTOM SIDE)

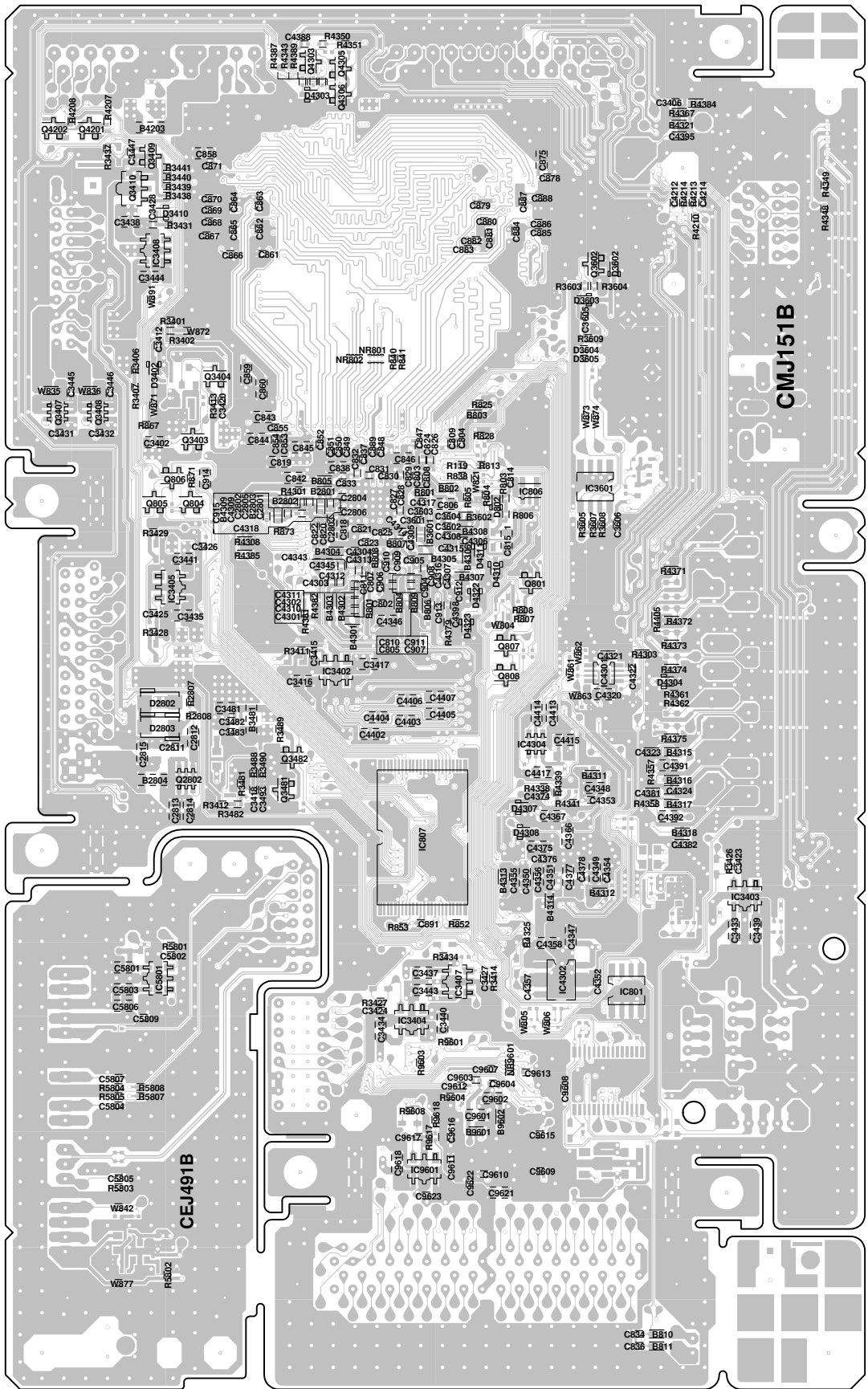


PRINTED CIRCUIT BOARDS

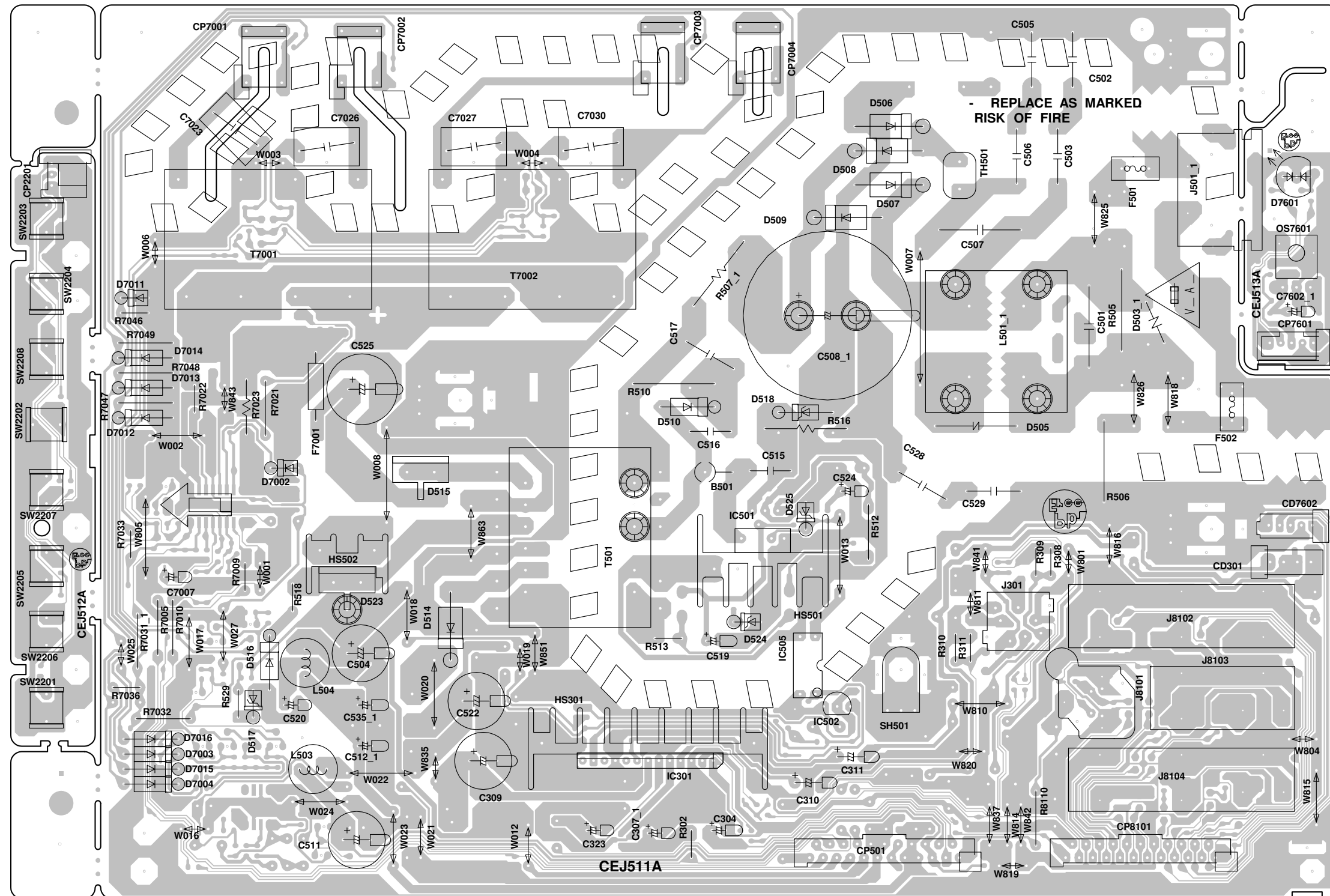
MAIN/TUNER (TOP SIDE)



MAIN/TUNER (BOTTOM SIDE)

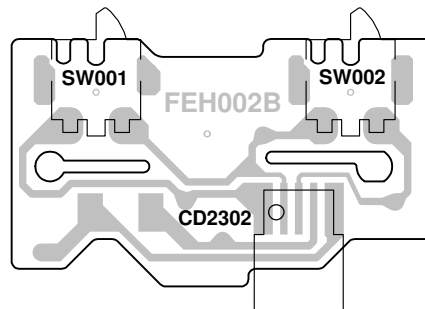


**PRINTED CIRCUIT BOARDS
POWER/OPERATION/REMOCON (INSERTED PARTS)
SOLDER SIDE**

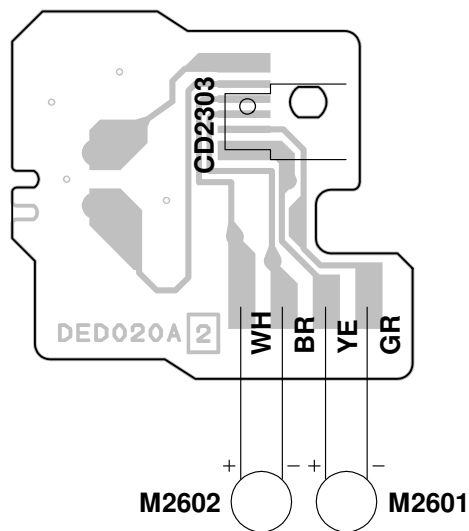


PRINTED CIRCUIT BOARDS

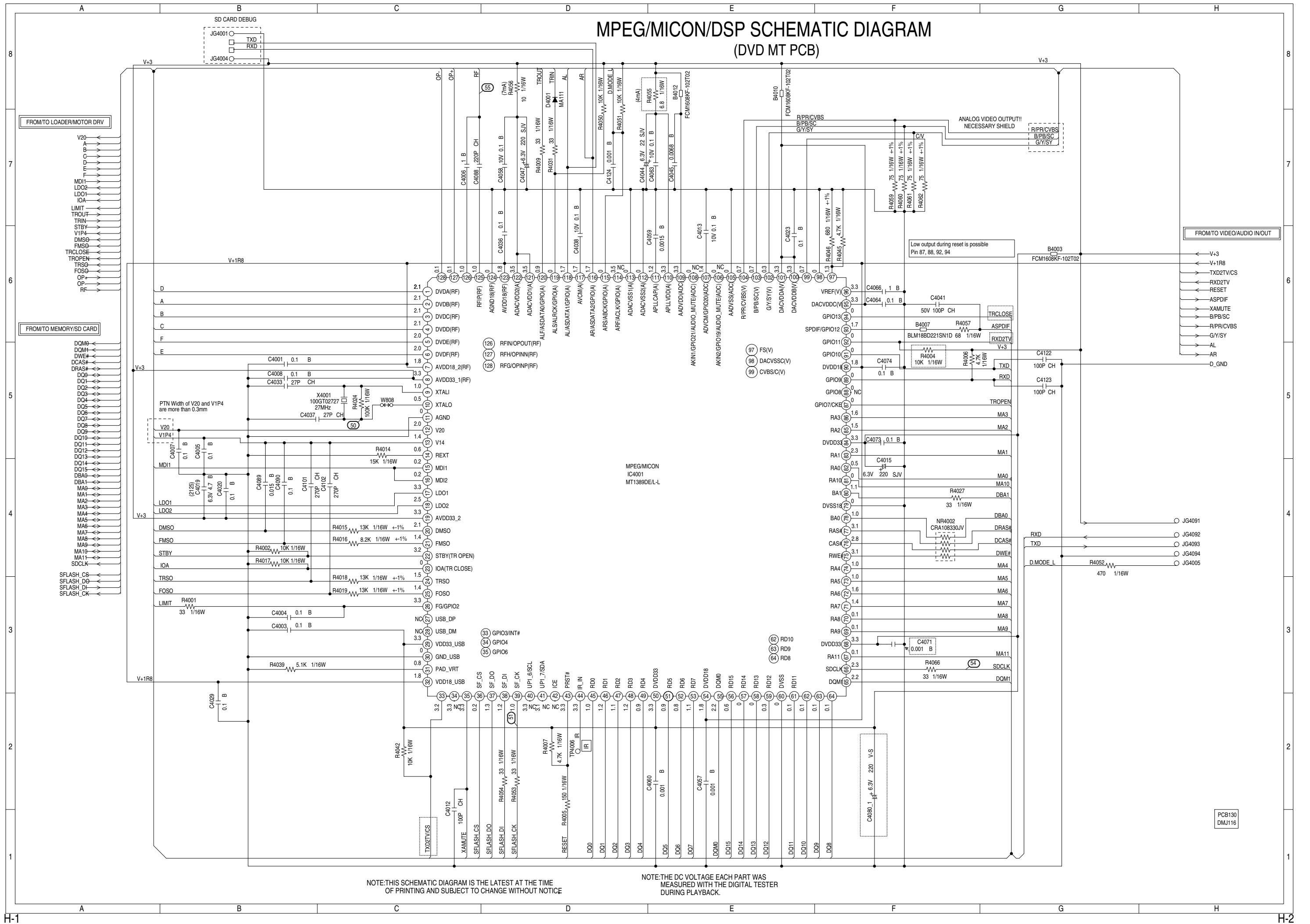
LOADING MOTOR SOLDER SIDE



PCB SOLDER SIDE



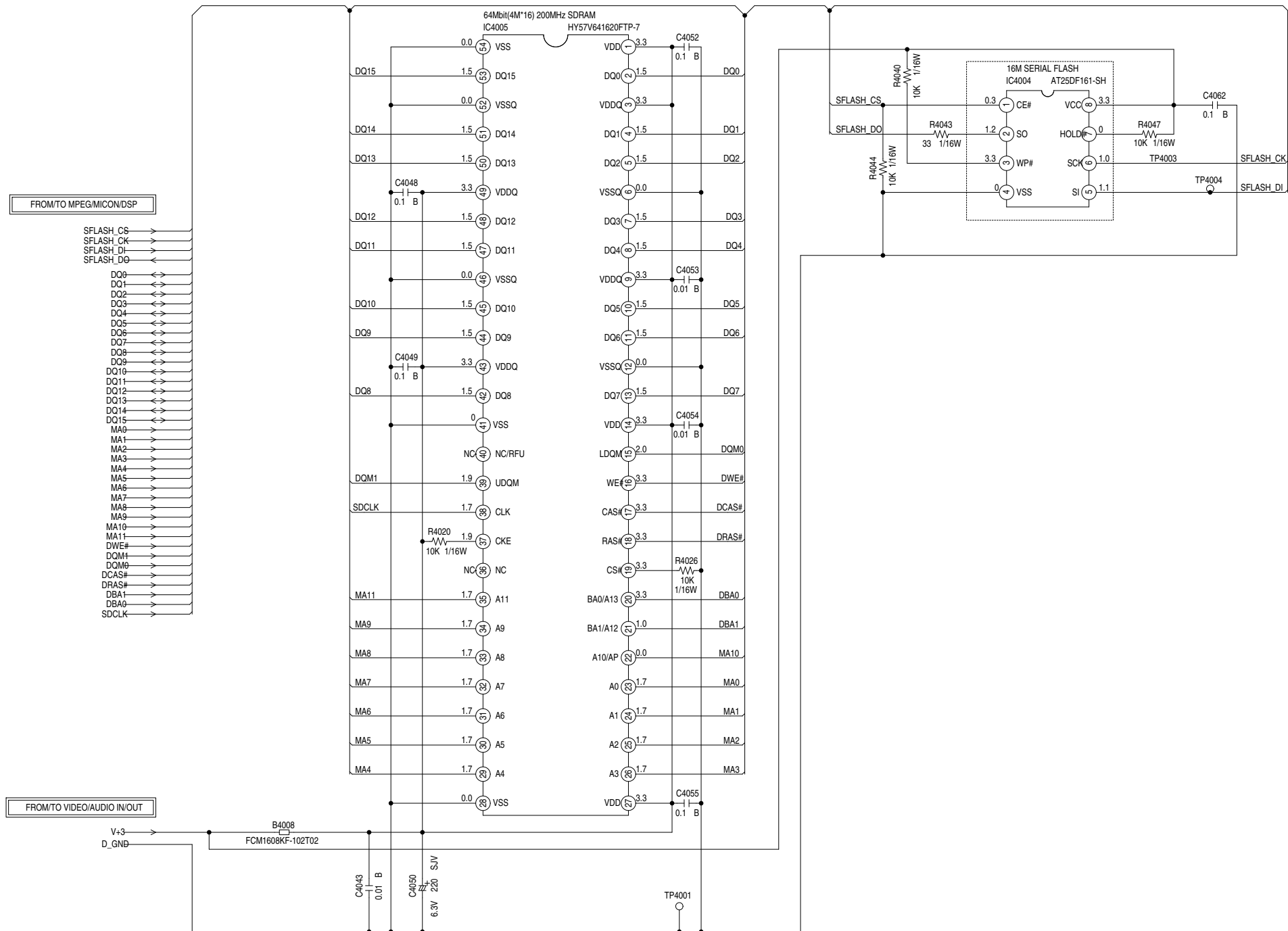
MPEG/MICON/DSP SCHEMATIC DIAGRAM



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

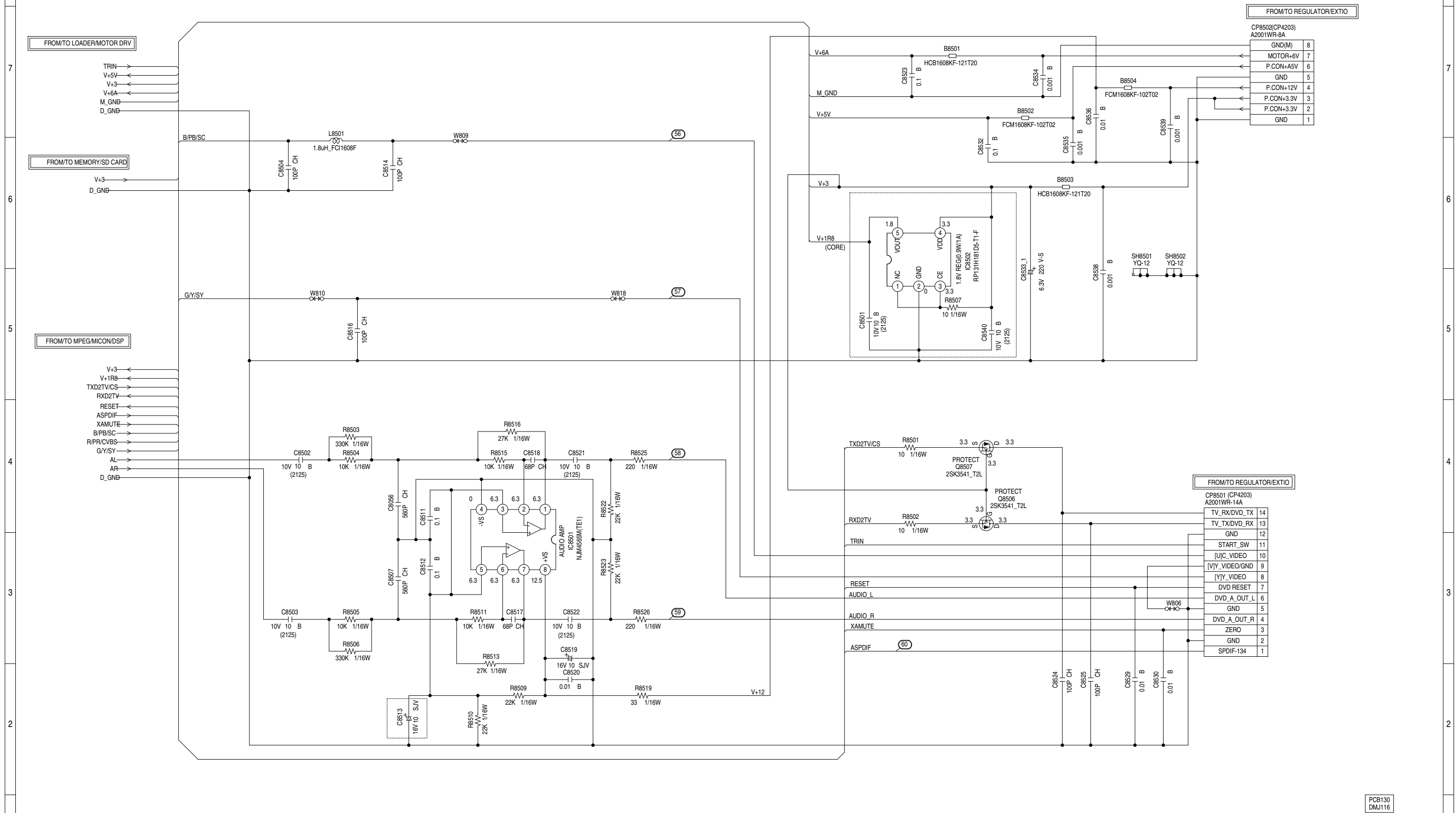
NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

MEMORY/SD CARD SCHEMATIC DIAGRAM
(DVD MT PCB)

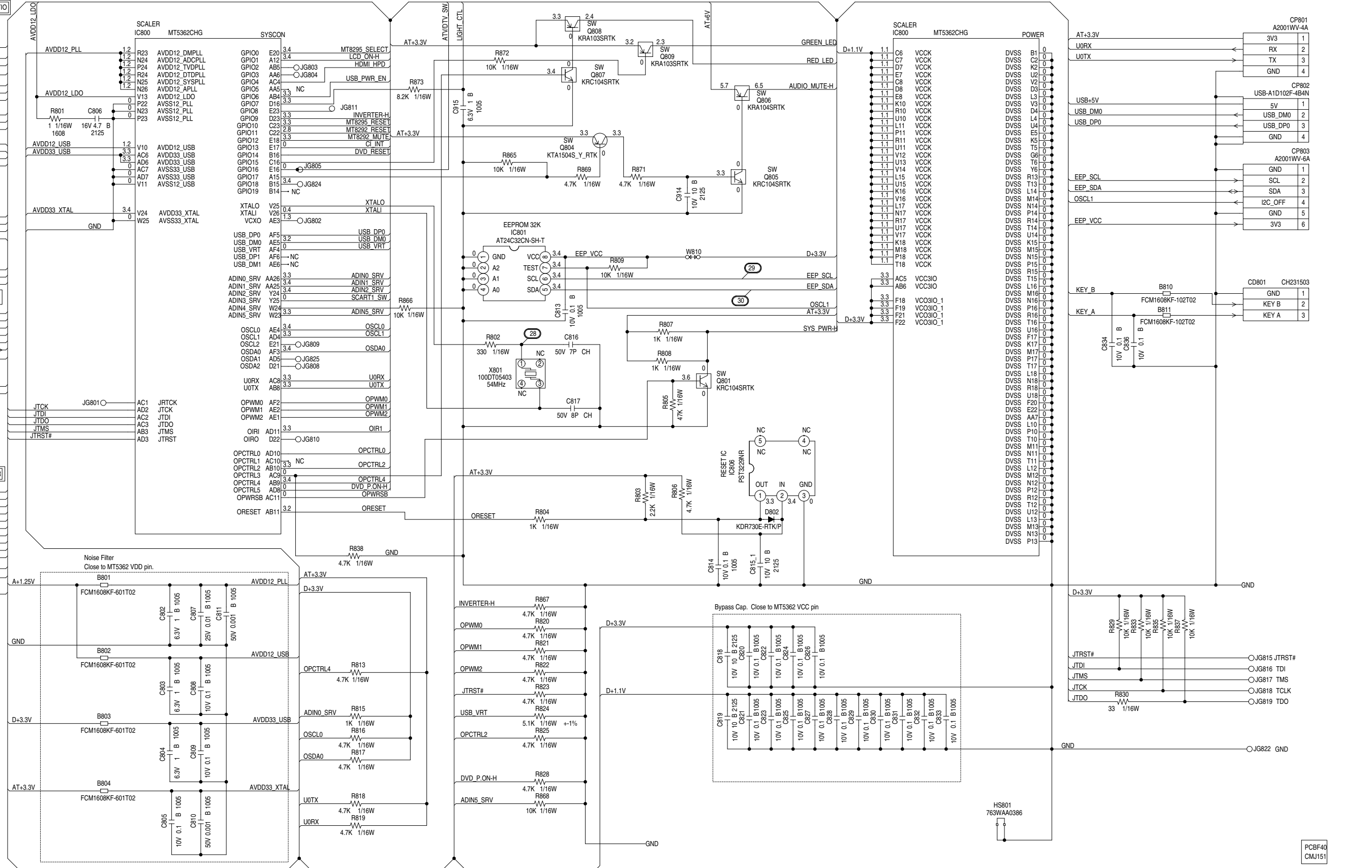


PCB130
DMJ116

VIDEO/AUDIO IN/OUT SCHEMATIC DIAGRAM
(DVD MT PCB)



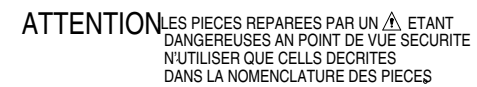
(MAIN PCB)



NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

The diagram shows a transformation of a circuit. On the left, a transistor is represented by a square box with an arrow pointing out from the bottom. It has three terminals: one at the top, one on the left, and one at the bottom. A thick black arrow points to the right, where a more detailed circuit is shown. This circuit features a transistor with its base connected to a resistor, which is in turn connected to a voltage source (represented by a circle with a dot). The emitter is connected to ground, and the collector is connected to another resistor, which is also connected to a voltage source.

(MAIN PCB)



(MAIN PCB)

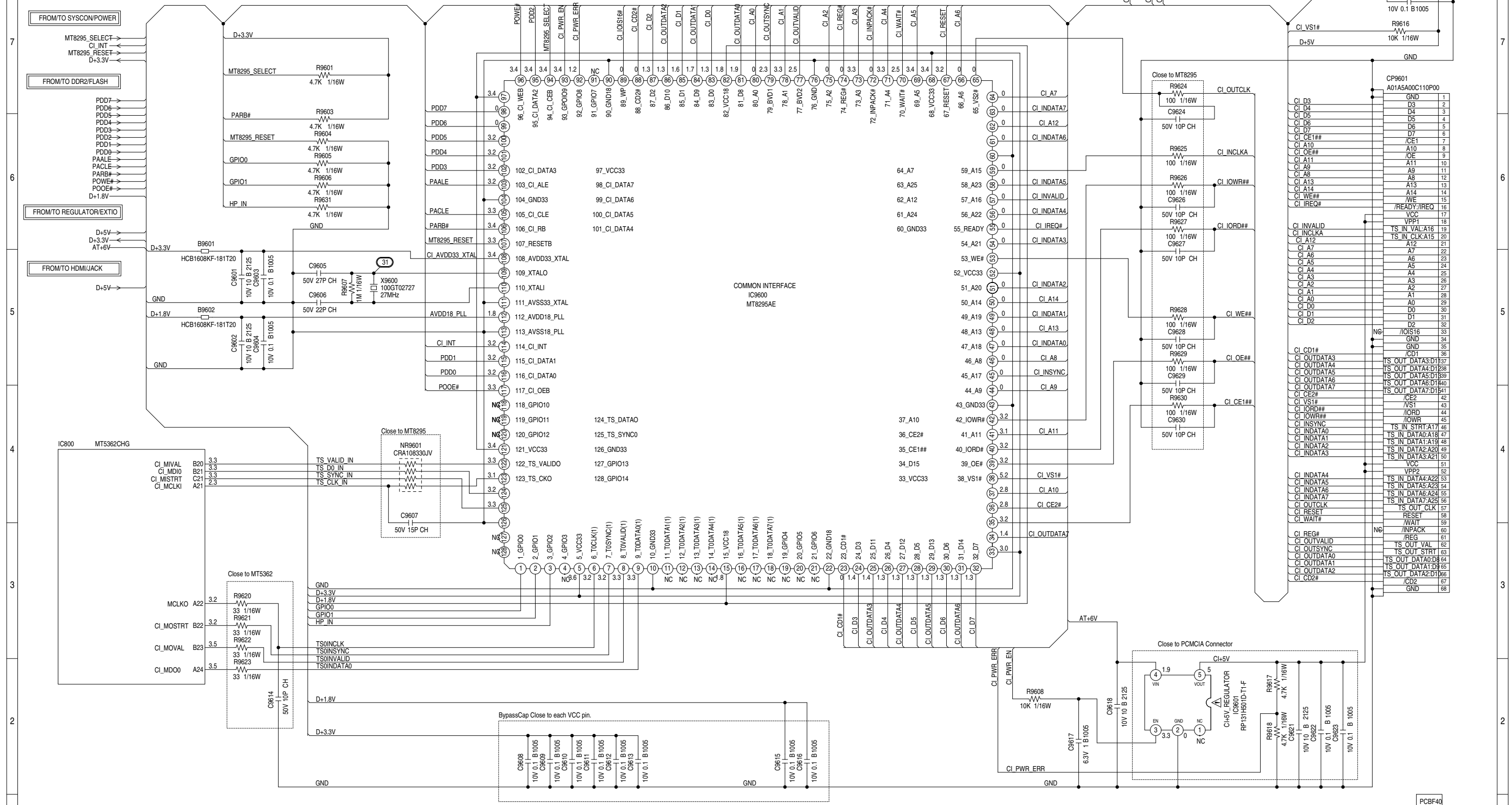


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

COMMON_I/F SCHEMATIC DIAGRAM

(MAIN PCB)



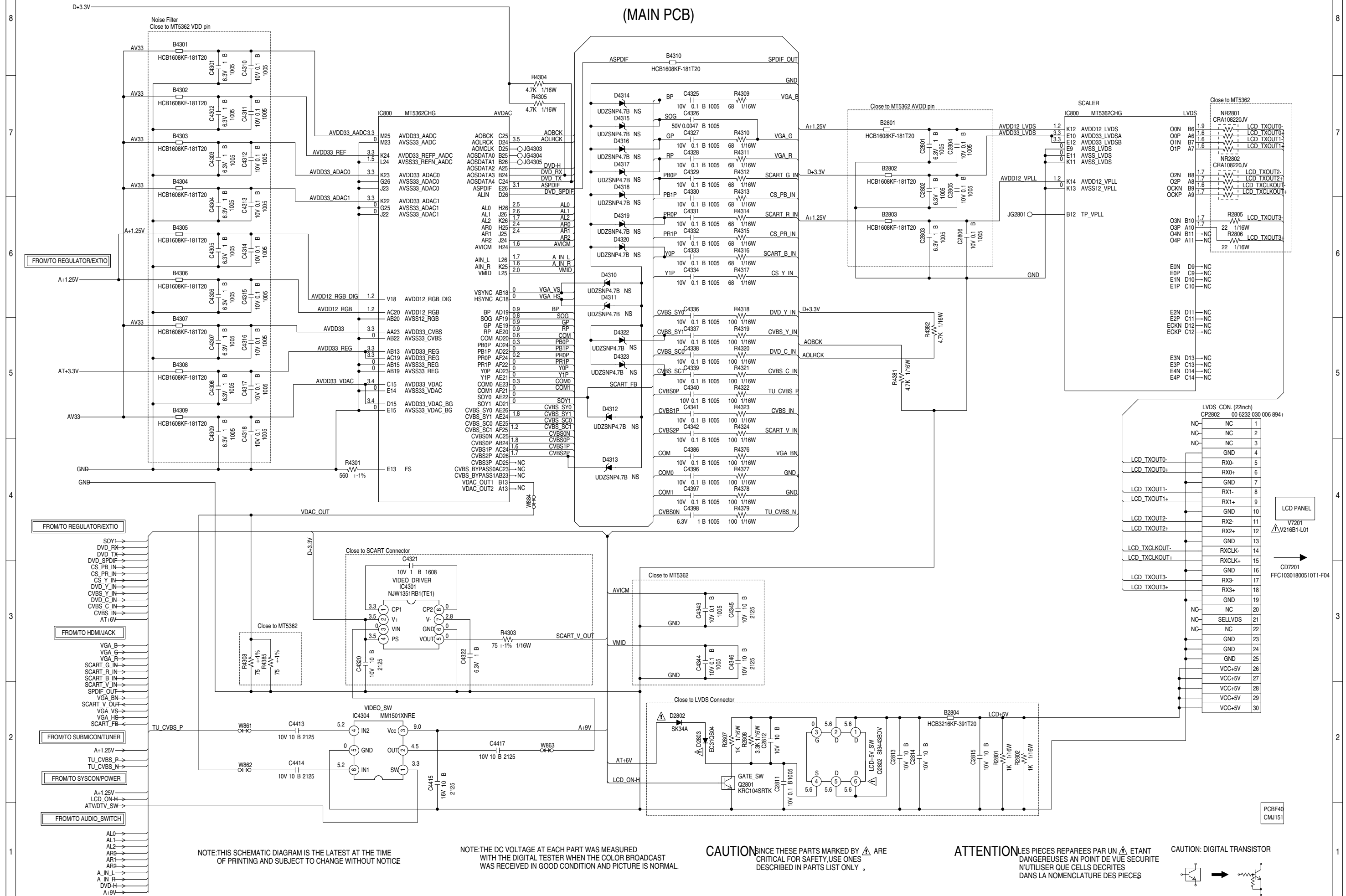
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

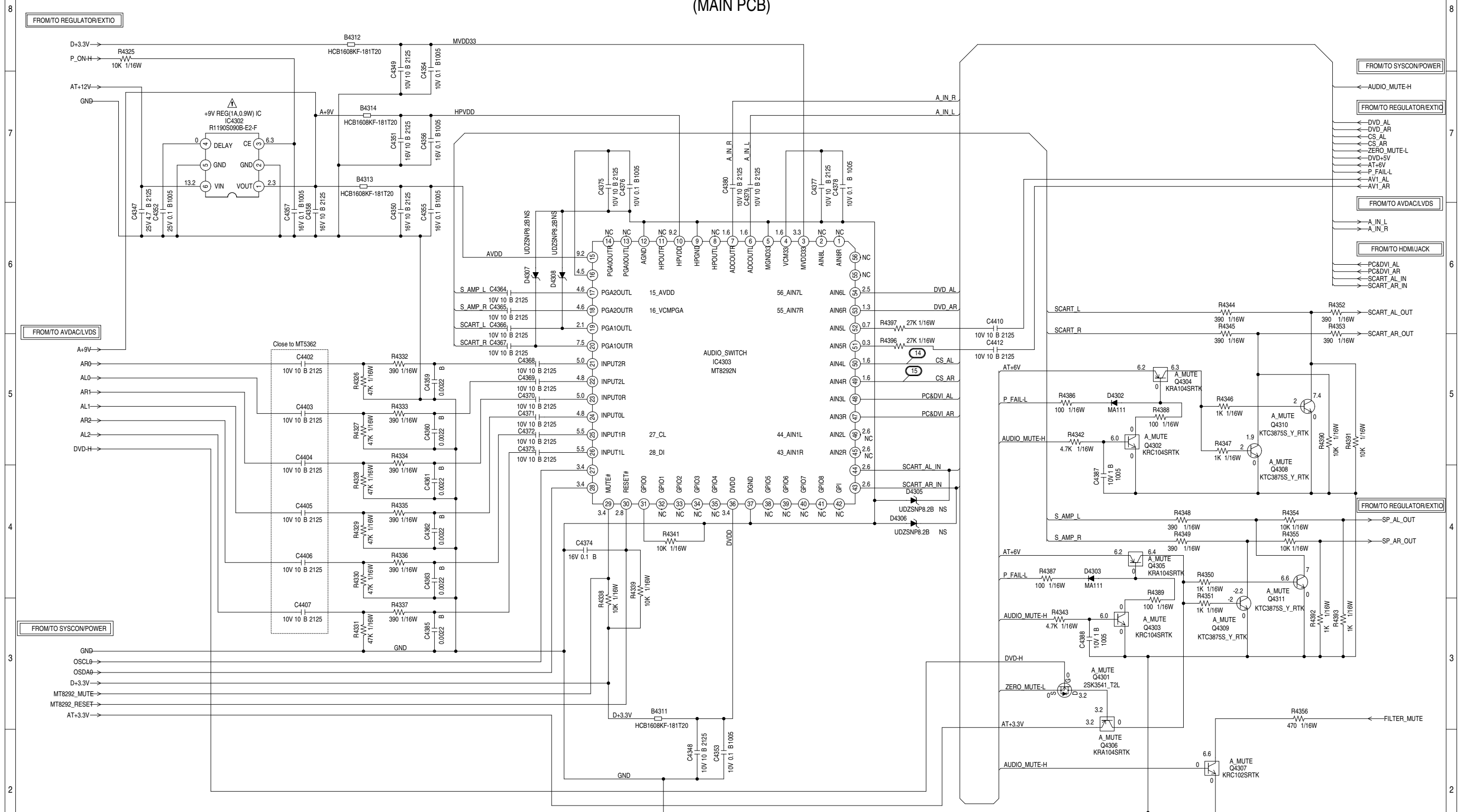
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ, N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

AVDAC/LVDS SCHEMATIC DIAGRAM (MAIN PCB)



AUDIO_SWITCH SCHEMATIC DIAGRAM
(MAIN PCB)



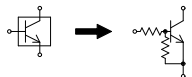
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL

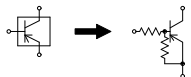
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

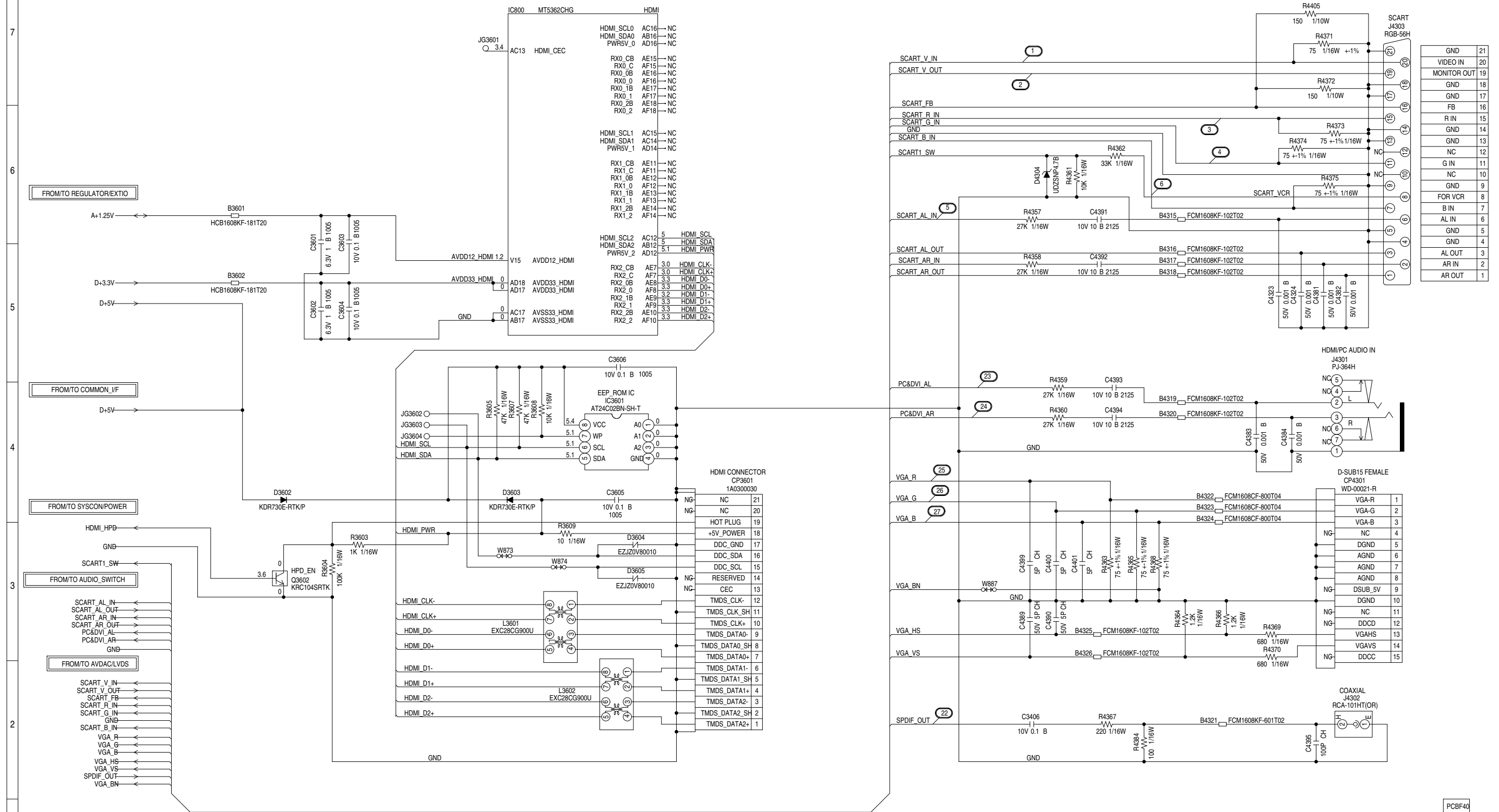
CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



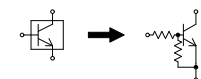
(MAIN PCB)



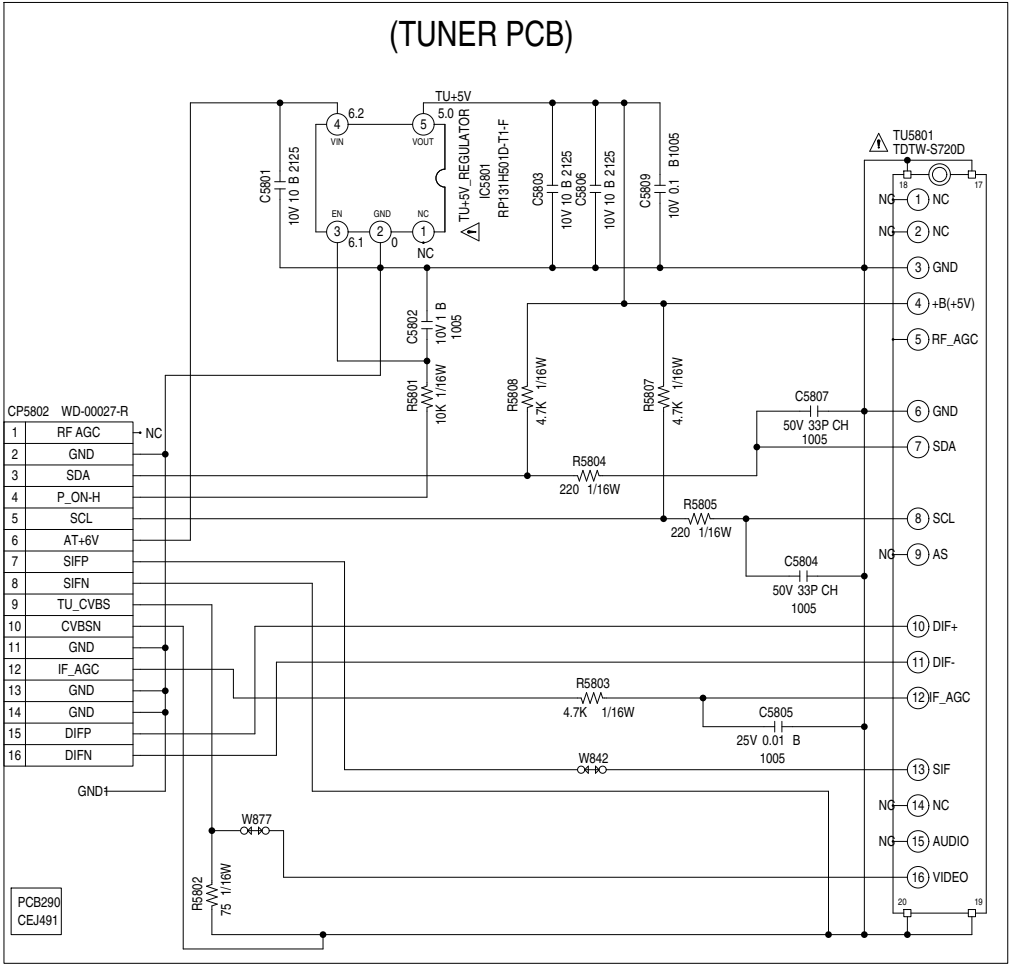
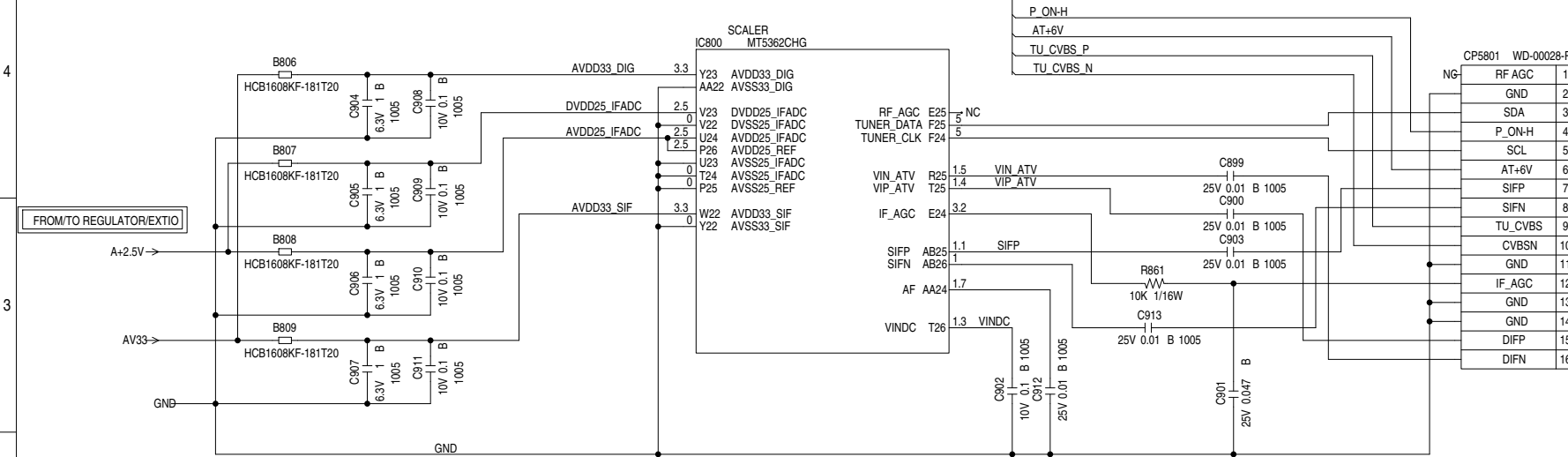
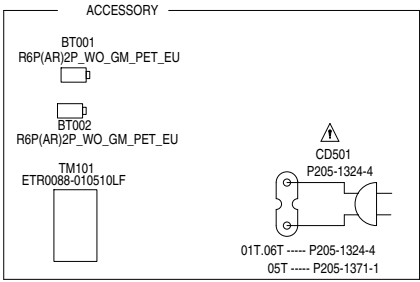
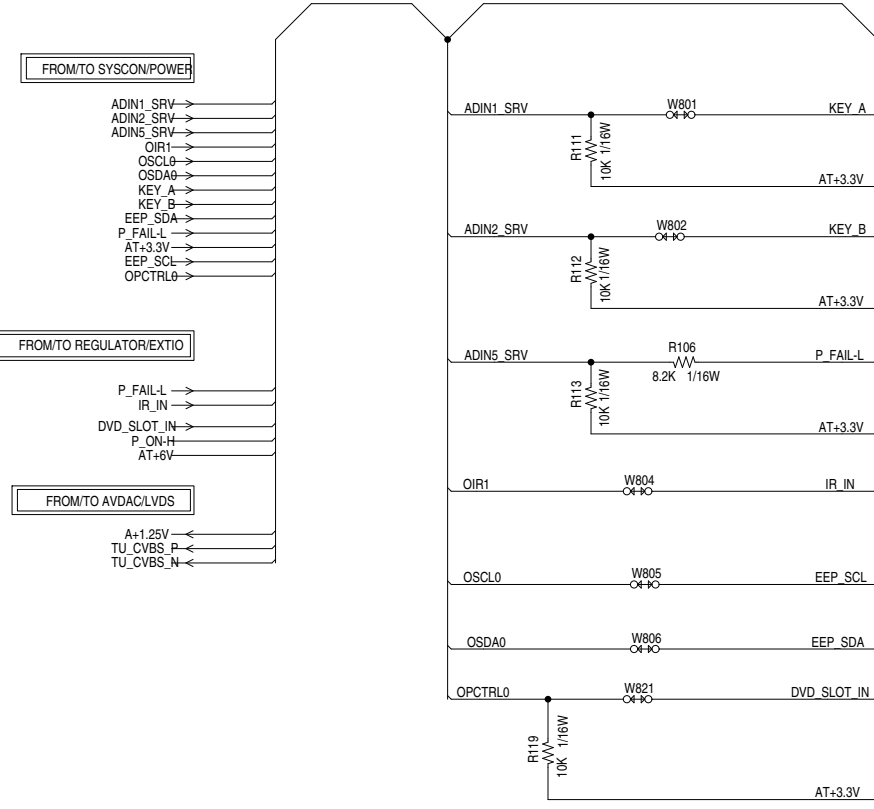
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR



SUBMICON/TUNER SCHEMATIC DIAGRAM
(MAIN PCB)



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

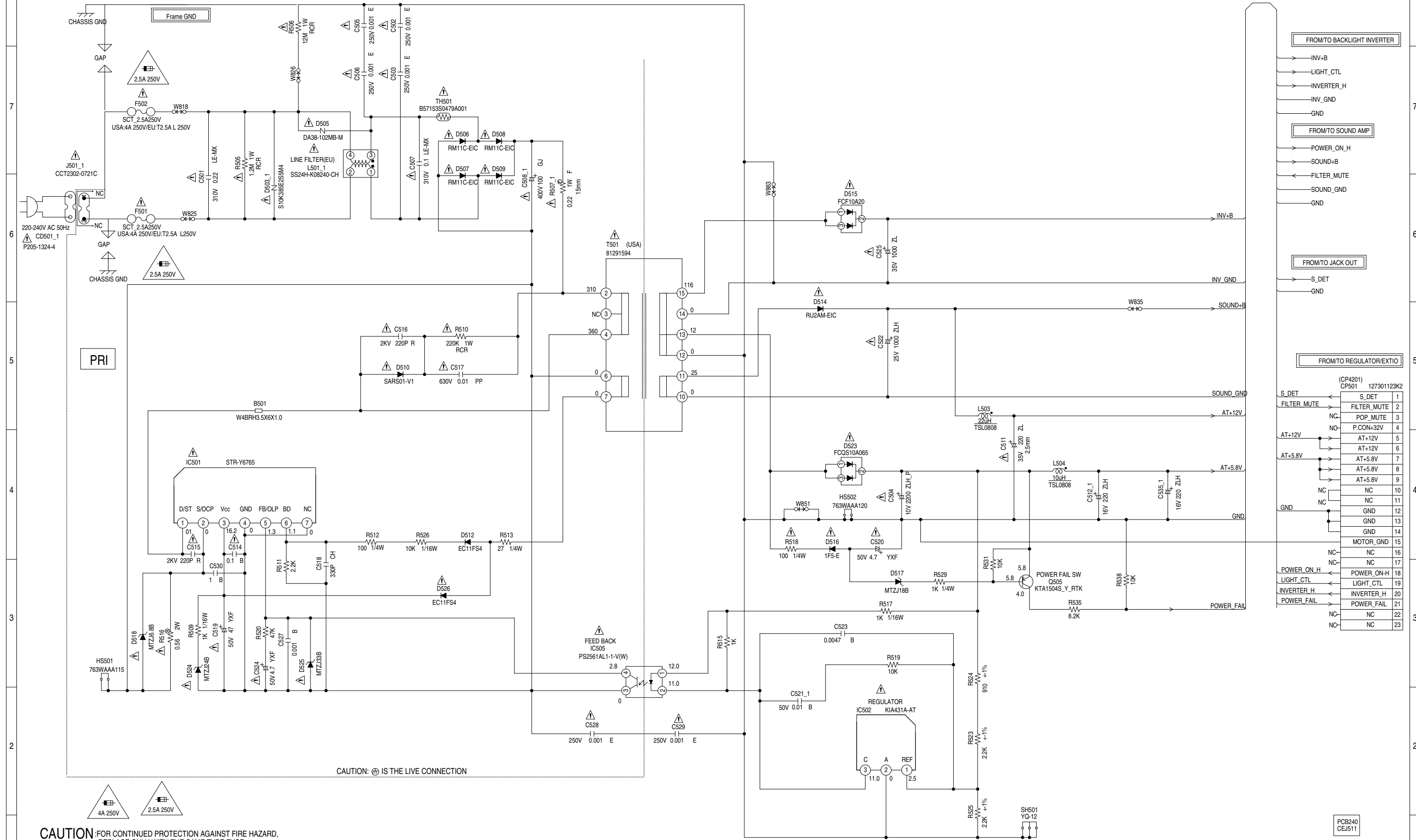
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY  ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY .

ATTENTION LES PIECES REPARÉES PAR UN  ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

POWER SCHEMATIC DIAGRAM

(POWER PCB)



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE
4A 250V (F501) 2 5A 250V (F501)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCE
N'UTILISER QUE DES FUSIBLE DE MEME TYPE
4A 250V (F501) 2.5A 250V (F501)

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

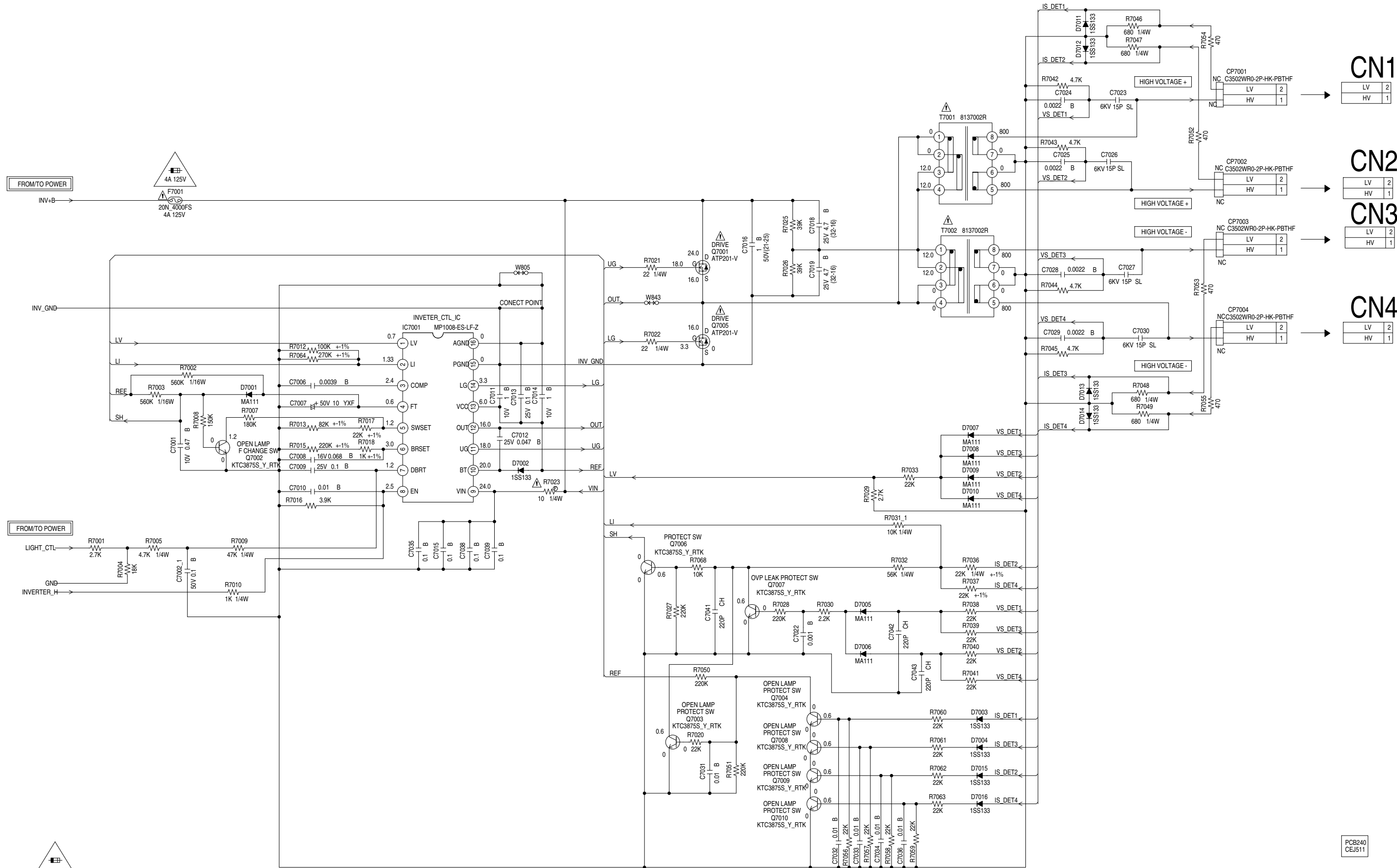
NOTE:THE RESISTOR MARKED F IS FUSE RESISTOR.
THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP
IS NON POLAR ONE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION LES PIÈCES REPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY .

BACKLIGHT INVERTER SCHEMATIC DIAGRAM
(POWER PCB)



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSBA 125V(F7001)
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE
N'UTILISER QUE DES FUSIBLE DE MEME TYPE 4A 125V(F7001)
CAUTION: F7001 IS MANUFACTURED BY SKYGATE CO.,LTD., TYPE 20N.

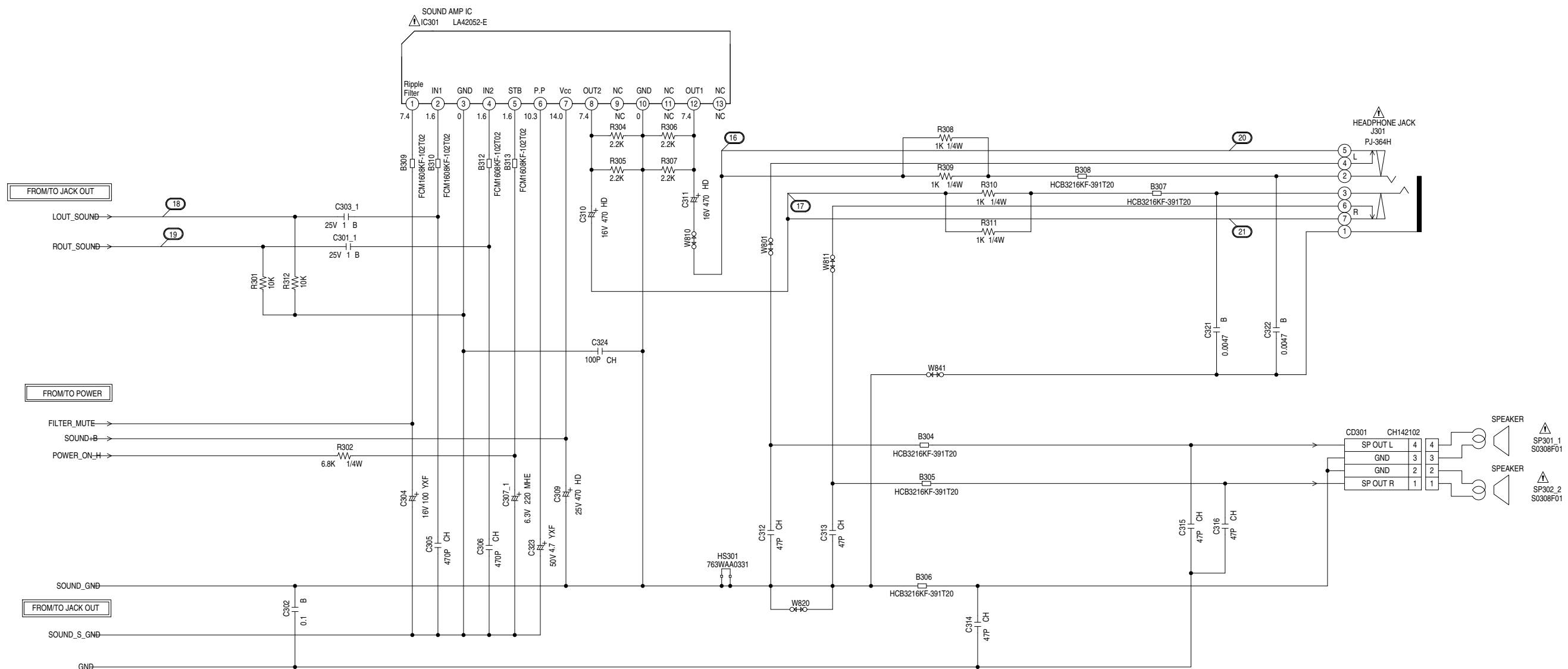
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: SINCE THESE PARTS MARKED BY ARE
CRITICAL FOR SAFETY, USE ONES
DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPARÉES PAR UN ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

SOUND AMP SCHEMATIC DIAGRAM
(POWER PCB)



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

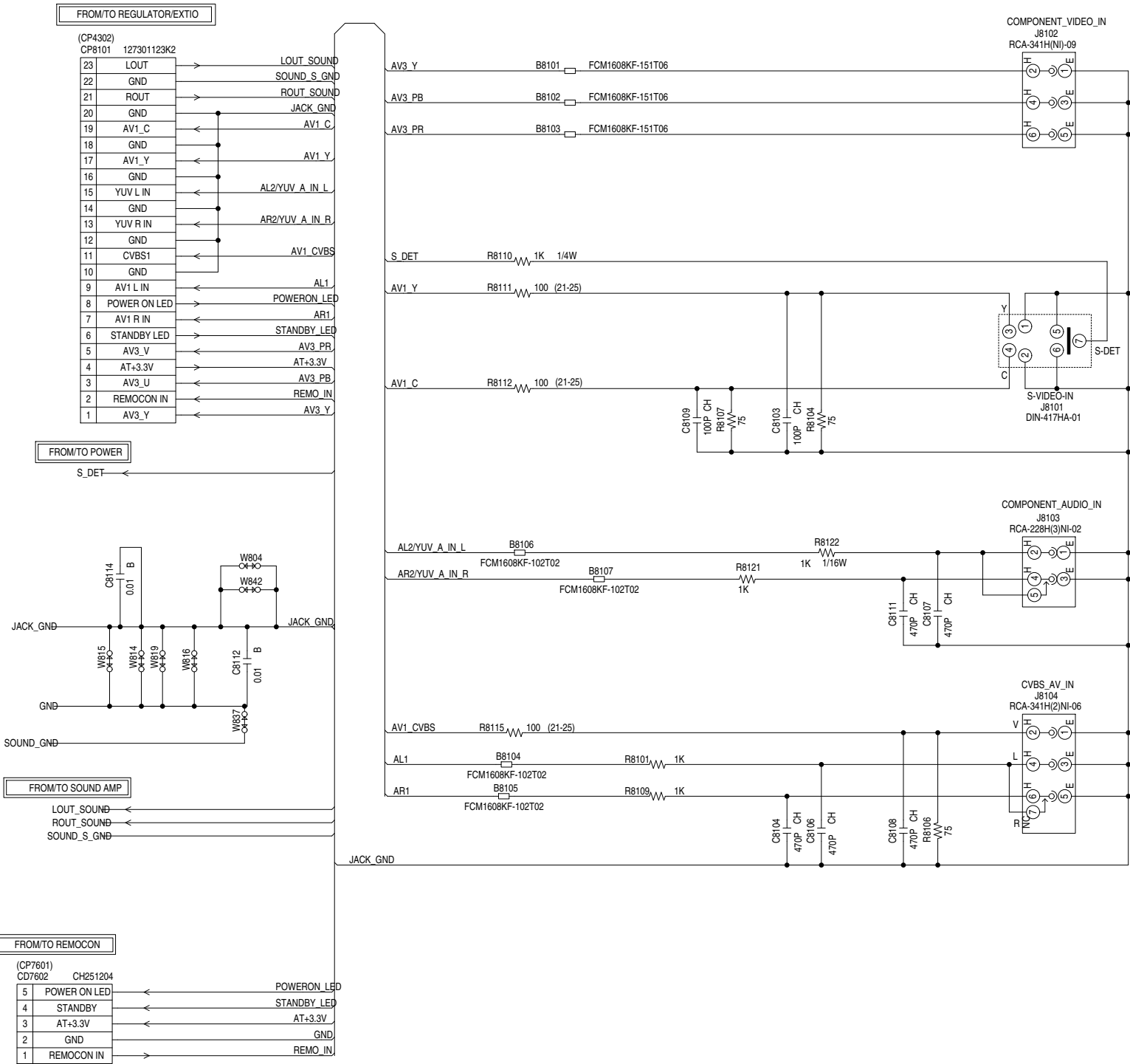
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY .

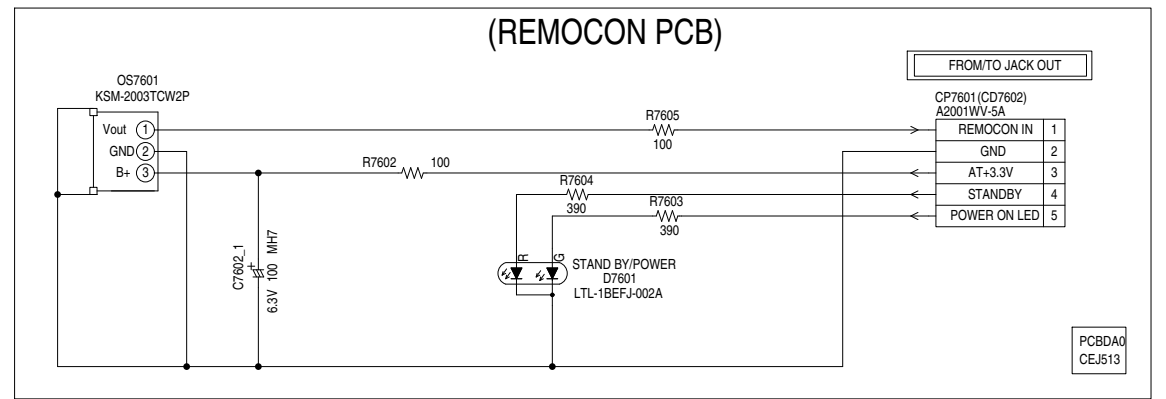
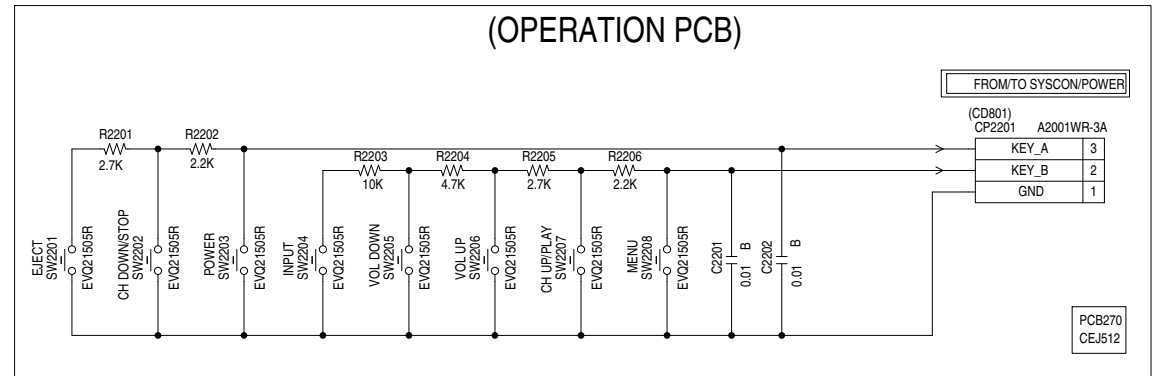
ATTENTION LES PIECES REPARÉES PAR UN ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

PCB240
CEJ511

(POWER PCB)



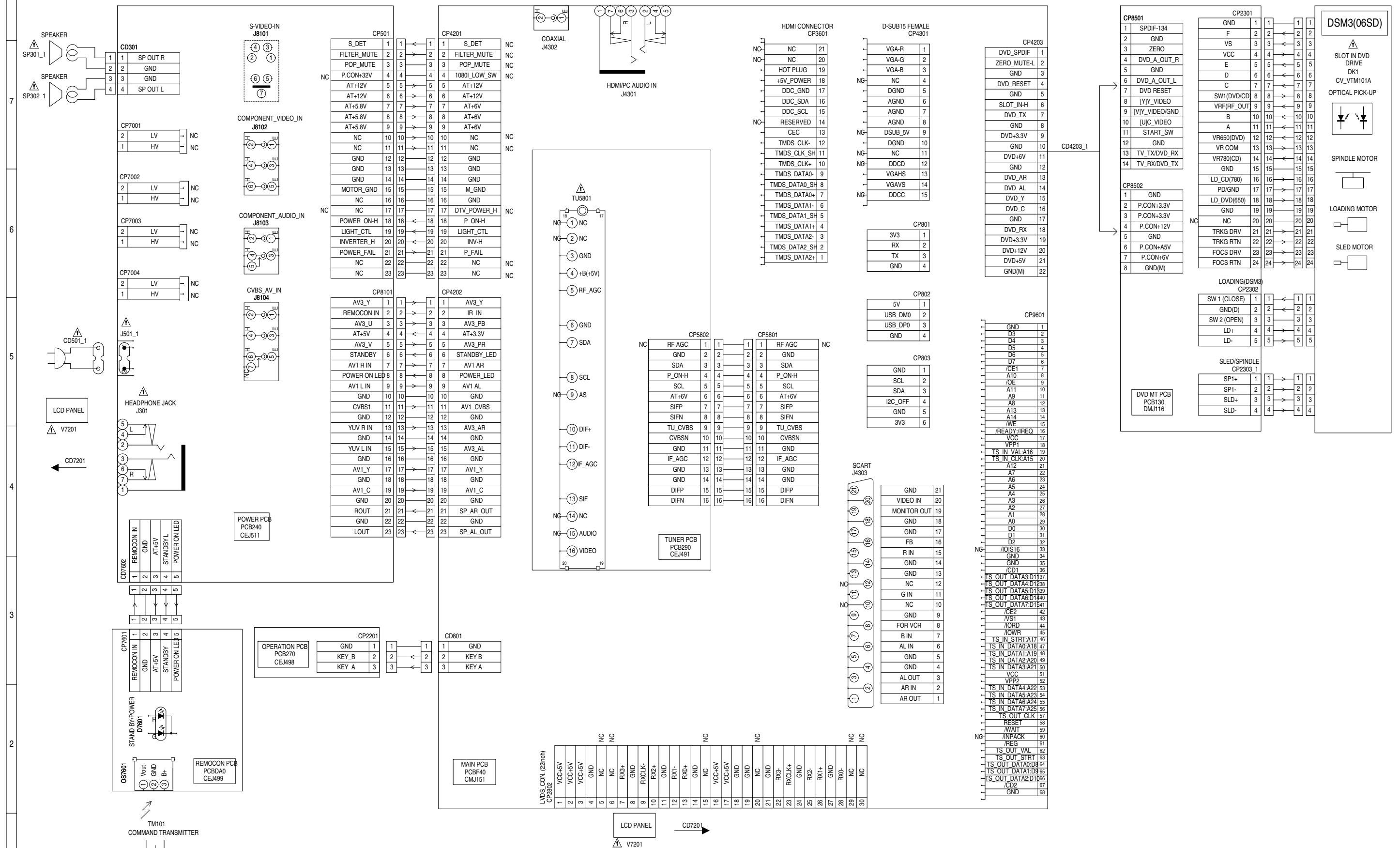
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.



NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

[illegible][illegible][illegible]

INTERCONNECTION DIAGRAM



NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

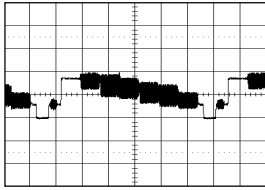
ATTENTION LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

WAVEFORMS

HDMI/JACK

10us
0.5V

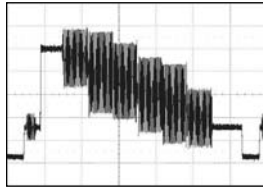
1



REGULATOR/EXTIO

10us
0.2V

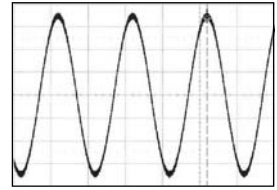
8



AUDIO SWITCH

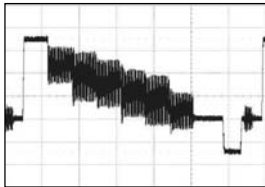
500us
0.2V

14



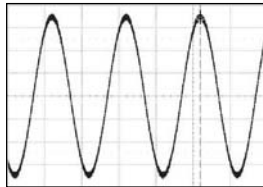
10us
0.2V

2



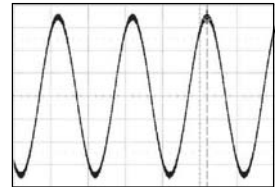
500us
0.2V

9



500us
0.2V

15



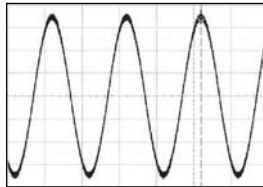
10us
0.2V

3



500us
0.2V

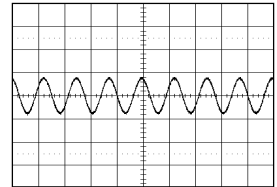
10



SOUND AMP

2ms
100mV

16



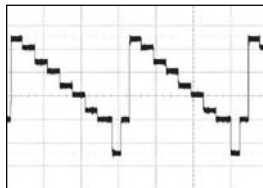
10us
0.2V

4



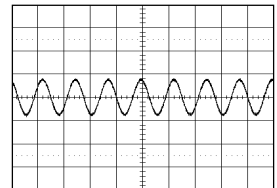
20us
0.2V

11



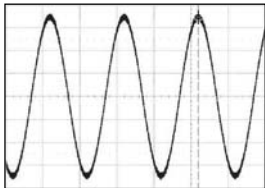
2ms
100mV

17



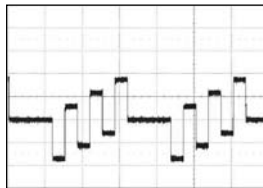
500us
0.2V

5



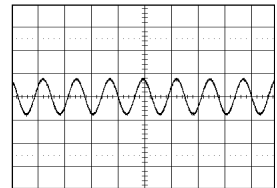
20us
0.2V

12



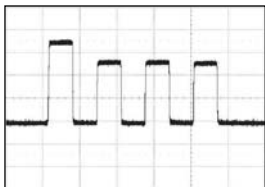
2ms
100mV

18



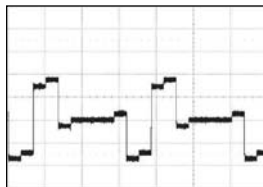
500us
0.2V

6



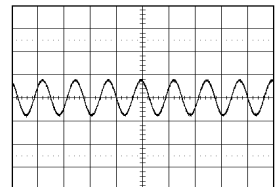
20us
0.2V

13



2ms
100mV

19



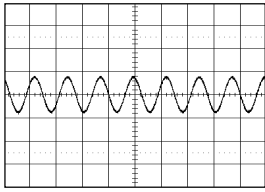
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

SOUND AMP

2ms
500mV

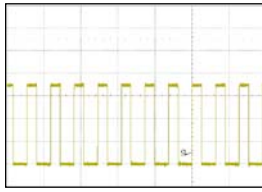
20



HDMI/JACK

10us
0.2V

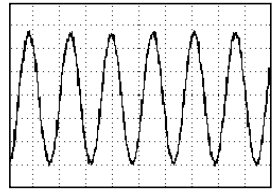
26



MPEG/MICOM/DSP

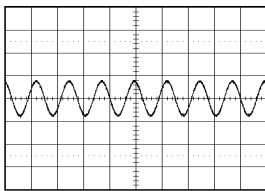
5ns
200mV

50



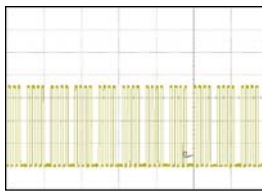
2ms
500mV

21



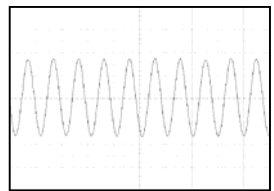
10us
0.2V

27



20ns
200mV

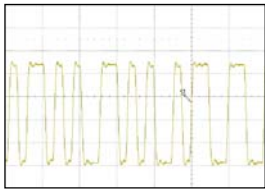
51



HDMI/JACK

1us
0.2V

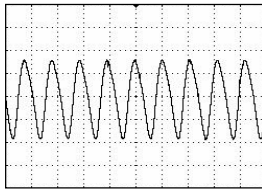
22



SYSCON/POWER

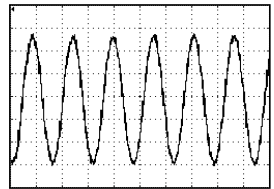
500us
0.5V

28



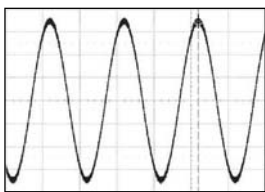
5ns
200mV

54



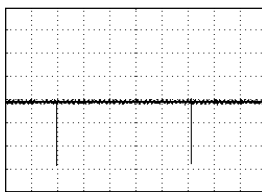
10us
0.2V

23



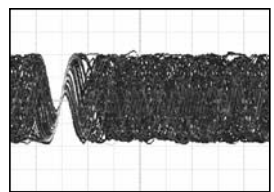
200ms
1V

29



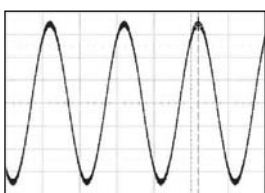
200ns
200mV

55



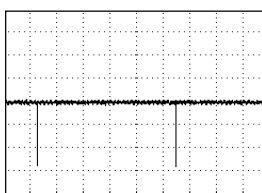
10us
0.2V

24



200ms
1V

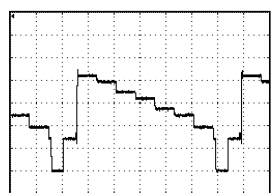
30



VIDEO/AUDIO NI/OUT

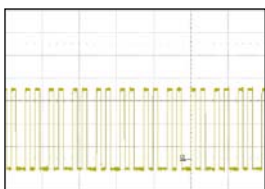
10us
200mV

56



50us
0.2V

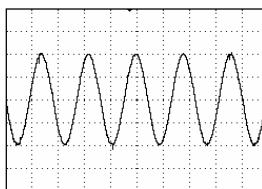
25



COMMON_I/F

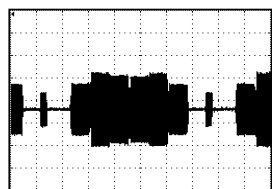
1ms
0.5V

31



10us
200mV

57



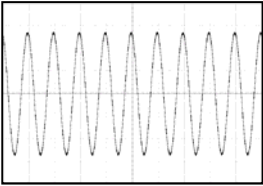
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

VIDEO/AUDIO NI/OUT

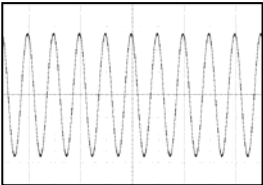
1ms
1V

58



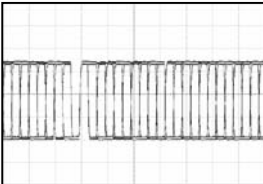
1ms
1V

59



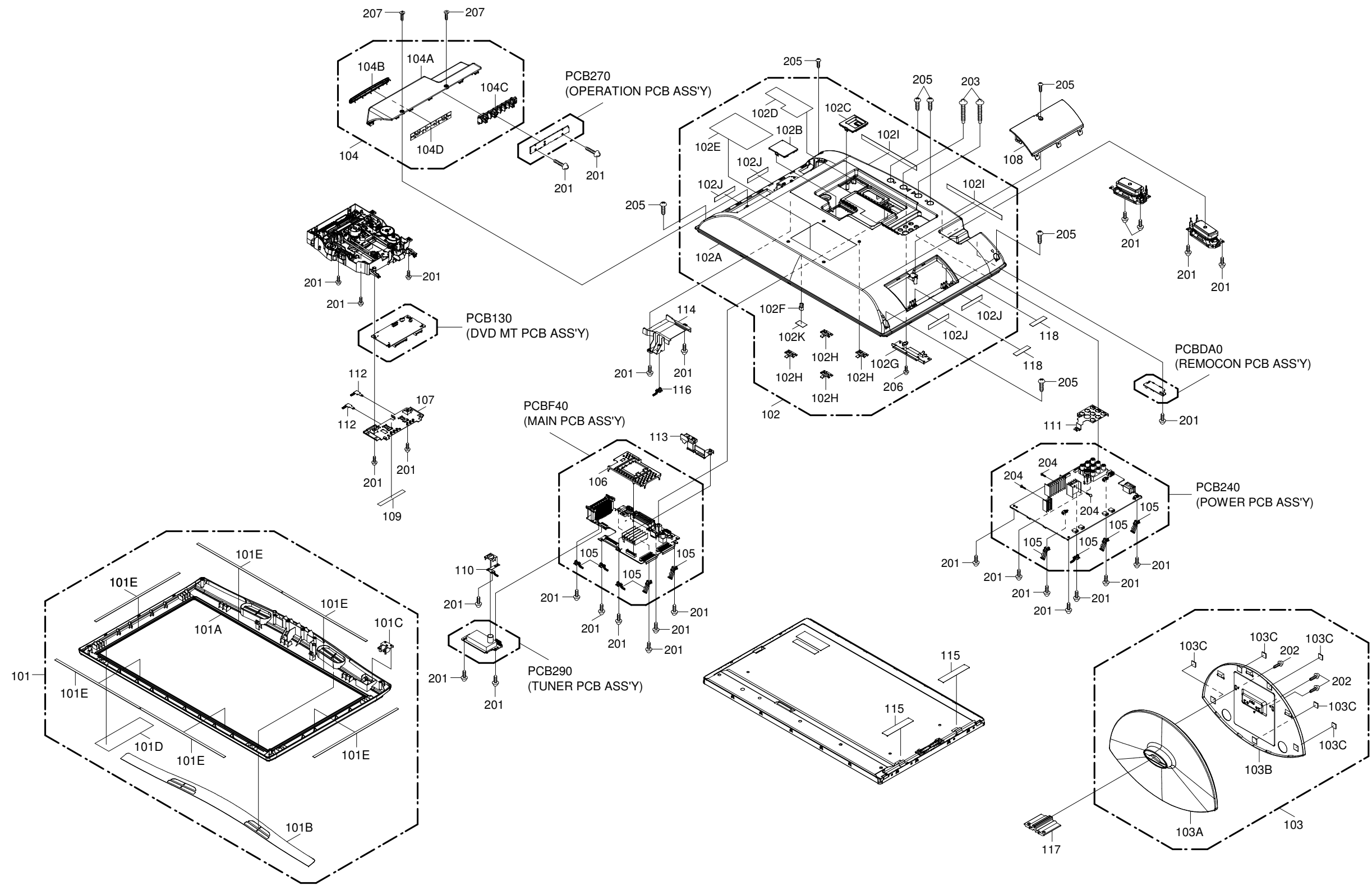
500ms
1V

60

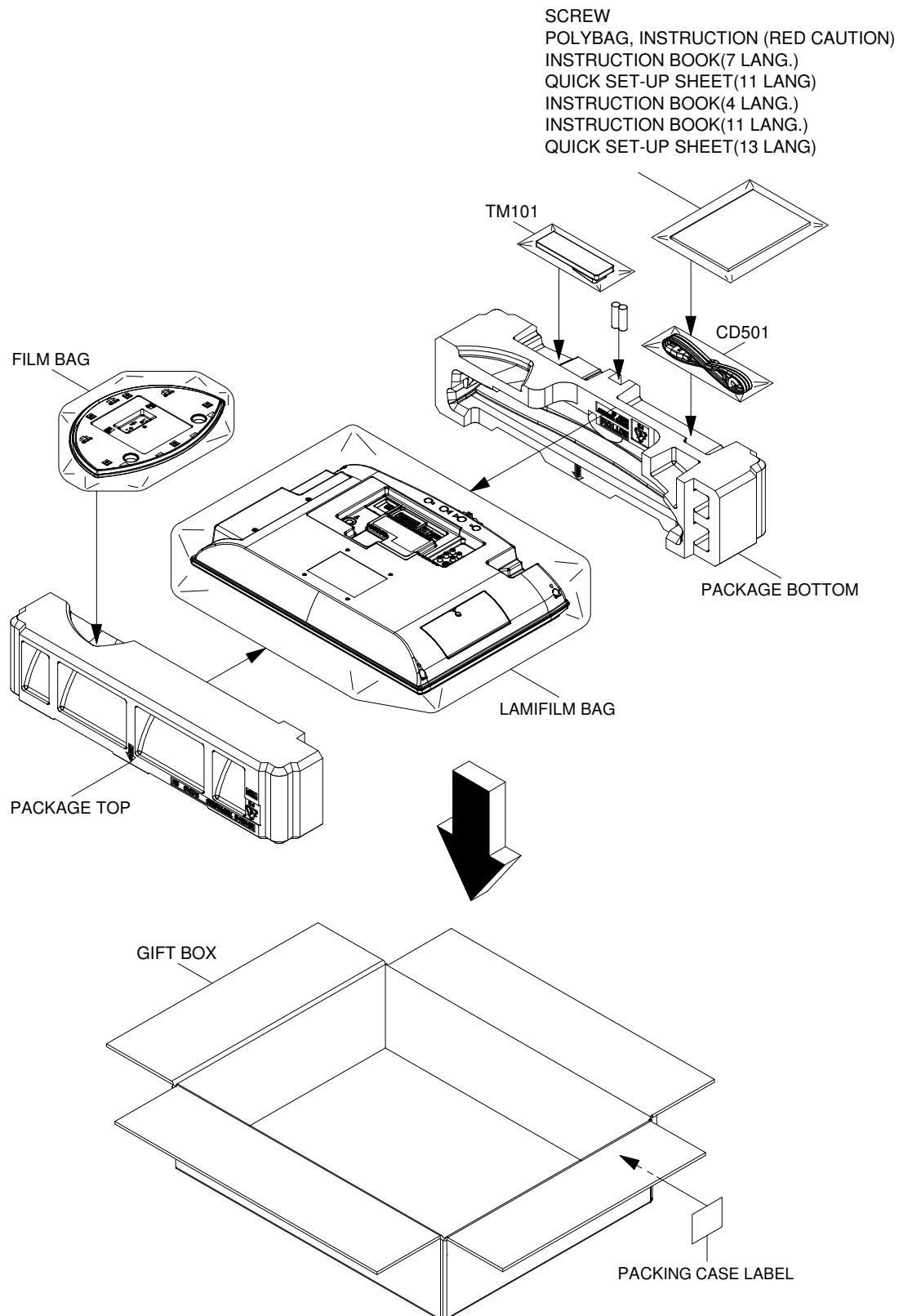


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

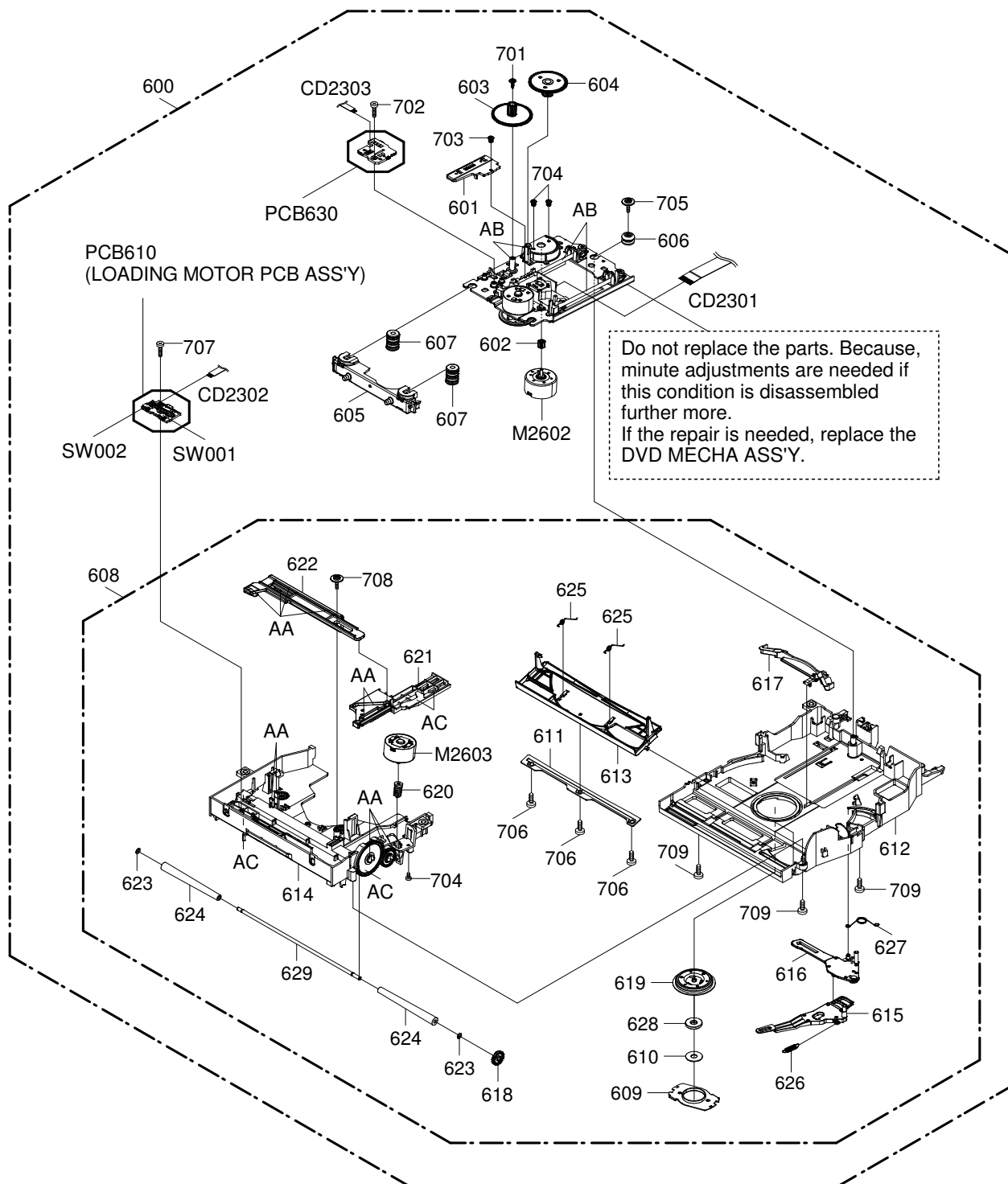
MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW (PACKING DIAGRAM)



DVD DECK EXPLODED VIEW



CLASS	PART NO.	PART NAME	MARK
GREASE	Y315141000	G-313Y	AA
	Y315061000	G-555G	AB
	Y31D041000	CFD-5007Z	AC

NOTE: Applying positions AA, AB and AC for the grease are displayed for this section. Check if the correct grease is applied for each position.

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
101	9JD7A708A319A	FRONT CABI ASS'Y	
101A	9JD708WPDA227	CABINET FRONT	
101B	9JD702WNA0015	SHEET SPEAKER	
101C	9JD713WPA0434	GLASS LED	or
	9JD713WPAA291	GLASS LED	
101D	9JD723000E453	POP LABEL DVD	
101E	9JD800WQ00181	FELT SHEET	
102	9JD7A702B085A	BACK CABI ASS'Y	
102A	9JD702WPA1512	CABINET BACK	
102B	9JD706WPA0031	COVER CONNECTOR	
102C	9JD706WPA0038	COVER CONNECTOR	
102D	9JD723000E442	SHEET JACK	
102E	9JD723527A171	SHEET RATING	
102F	9JD761WPAA238	SPACER CABINET	
102G	9JD761WSA0755	ANGLE HINGE	
102H	9JD761WSA0790	ANGLE BACK	or
	9JD761WSA0791	ANGLE BACK	
102I	9JD800WQ0A312	FELT SHEET	
102J	9JD800WQ00182	FELT SHEET	
102K	9JD800WQ00195	FELT SHEET	
103	9JD7A704A233A	STAND ASS'Y	
103A	9JD704WPAA131	STAND	or
	9JD704WPAA136	STAND	or
	9JD704WPAA137	STAND	
103B	9JD761WSA0756	ANGLE STAND	
103C	9JD800SRA0002	CUSHION LEG VEB1349-A	
104	9JD7A711A224A	PANEL SIDE ASS'Y	
104A	9JD711WPDA946	PANEL SIDE	
104B	9JD711WPBA022	SLOT DVD	
104C	9JD735WPBB684	BUTTON FRAME	or
	9JD735WPBB695	BUTTON FRAME	or
	9JD735WPBB696	BUTTON FRAME	
104D	9JD800WQ00175	FELT SHEET (DVD)	
105	9JD744WEA0002	SPRING EARTH	
106	9JD752WSA0757	SHIELD DIGITAL	
107	9JD761WSA0721	SHIELD LVDS	
108	9JD702WPA1495	COVER INVERTER	
109	9JD726000A139	SHEET CAUTION	
110	9JD744WUA0051	SPRING EARTH TUNER	
111	9JD752WSAA168	SHIELD JACK	
112	9JD753WUAA006	SPRING EARTH HEAD AMP	
113	9JD761WPAA255	HOLDER PCB	
114	9JD761WPA0603	HOLDER CI CARD	
115	9JD724WNAA042	SHEET PP	
116	9JD744WUA0053	SPRING EARTH	
117	9JD761WEAA002	FRAME STAND	
118	9JD800WQ0A094	FELT SHEET	
201	9JD8109230A0U	SCREW TAP TITE(B) BIND	3x10
202	9JD8110K3080U	SCREW TAP TITE(P) LAMI HEAD	3x8
203	9JD8117540C0S	SCREW TAPPING(B0) TRUSS	4x30
204	9JD8109I30A0U	SCREW TAP TITE(B) WH7	3x10
205	9JD8109230A4S	SCREW TAP TITE(B) BIND	3x14
206	9JD8109230A4U	SCREW TAP TITE(B) BIND	3x14
207	9JD810923080S	SCREW TAP TITE(B) BIND	3x8
---	9JD723527A172	PACKING CASE LABEL	
---	9JD791WHA0173	FILM BAG	
---	9JD791WHA0175	LAMIFILM BAG	650x550x0.5MM
---	9JD792PHA0068	PACKAGE TOP	
---	9JD792PHA0069	PACKAGE BOTTOM	
---	9JD793PCDA250	GIFT BOX	
---	9JD8905000003	SCREW	
---	9JDJ54B0101A	INSTRUCTION BOOK(7 LANG.)	
---	9JDJ54B0107A	QUICK SET-UP SHEET(11 LANG.)	
---	9JDJ54B0110A	INSTRUCTION BOOK(4 LANG.)	
---	9JDJ54B0111A	INSTRUCTION BOOK(11 LANG.)	
---	9JDJ54B0170A	QUICK SET-UP SHEET(13 LANG.)	
---	9JDJB5PD000	POLYBAG INSTRUCTION(RED CAUTION)	

DVD DECK REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
△ 600	9JDA52J01A650	DVD MECHA ASS'Y	A52J01A650
601	9JD92AAA0017A	FEED RACK ASS'Y	
602	9JD92P100088A	GEAR,MOTOR	
603	9JD92P100116A	GEAR,FEED	
604	9JD92P100117A	GEAR,MIDDLE	
605	9JD92P100171A	HOLDER TRAVERSE	
606	9JD92P200018A	INSULATOR, R	
607	9JD92P200021A	INSULATOR F	
608	9JDA52J01A700	LOADER SUB ASS'Y	
609	9JD92P000036A	COVER CLAMPER	
610	9JD92P000037A	PLATE CLAMPER	
611	9JD92P000039A	PLATE RETAINER	
612	9JD92P100217A	FRAME MAIN	
613	9JD92P100159A	RETAINER SHUTTER	
614	9JD92P100160A	CHASSIS MAIN	
615	9JD92P100161A	LEVER DISC	
616	9JD92P100162A	LEVER GUIDE	
617	9JD92P100218A	GUIDE DISC	
618	9JD92P100164A	GEAR ROLLER	
619	9JD92P100165A	CLAMPER	
620	9JD92P100172A	GEAR WORM	
621	9JD92P100175A	RACK LEVER	
622	9JD92P100176A	PLATE TRVS UD	
623	9JD92P100180A	LUMIRROR WASHER	
624	9JD92P200020A	ROLLER CONE	
625	9JD92P300033A	SPRING SHUTTER	
626	9JD92P300034A	SPRING LEVER DISC	
627	9JD92P300035A	SPRING LEVER GUIDE	
628	9JD92P400011A	MAGNET CLAMPER	
629	9JD92P500011A	SHAFT ROLLER	
701	9JD92P700007A	SCREW,GEAR FEED	
702	9JD811022080U	SCREW,TAP TITE(P) BIND	2x8
703	9JD813381750U	SCREW,T-TITE(B) CAMERA PAN	M1.7x5.0 P3
704	9JD814011723U	SCREW,PAN	M1.7x2.3 P3
705	9JD92P700016A	SEMS TAP TITE(P) PAN W8	2x8
706	9JD810922030U	SCREW TAP TITE(B) BIND	2x3
707	9JD810922060U	SCREW,TAP TITE(B) BIND	2x6
708	9JD92P700017A	SCREW TAP TITE(P) BIND WH7	M2.6x8
709	9JD92P700018A	SCREW TAP TITE(P) BIND	2.6x8
CD2301	9JD12C14O1602	CORD JUMPER	FFC05241600408T1-A04
CD2302	9JD12C1052601	CORD JUMPER	FFC100526005030800T8-O04
CD2303	9JD12C1042101	CORD JUMPER	FFC100421005030800T8-O04
M2602	9JD1515T98006	MOTOR	WRF-300CA-10460A
M2603	9JD1596L98004	MOTOR,LOADING	WRF-300CA-10460F
PCB610	9JDA52C01T610	LOADING MOTOR PCB ASS'Y	FEH002B
PCB630	9JD13DED020AW	PCB	DED020A
SW001	9JD0500101042	PUSH SWITCH	ESE31R11T
SW002	9JD0500101042	PUSH SWITCH	ESE31R11T

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
REMOCON PCB ASS'Y			
*** PCB ***			
PCBDA0	9JDA54C01ADA0M	REMOCON PCB ASS'Y	CEJ513A
*** DIODES ***			
D7601	9JD0021E9Q010	LED	LTL-1BEFJ-002A
*** OTHERS ***			
CP7601	9JD06GG250029	CONNECTOR PCB SIDE	A2001WV-5A
OS7601	9JD077Q038009	REMOTE RECEIVER	KSM-2003TCW2P
MAIN PCB ASS'Y			
*** PCB ***			
PCBF40	9JDA54C01AF40M	MAIN PCB ASS'Y	CMJ151B
*** DIODES ***			
D802	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
△ D2802	9JDD4CRSK34A0	DIODE SCHOTTKY	SK34A
△ D2803	9JDD28R1QS040	DIODE	EC31QS04-TE12L
D3401	9JDD28R1QS040	DIODE	EC31QS04-TE12L
D3402	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D3404	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D3410	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D3481	9JDD28R1QS040	DIODE	EC31QS04-TE12L
D3482	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D3602	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D3603	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D3604	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D3605	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4302	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D4303	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D4304	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4305	9JDDE7RB8R22B	DIODE ZENER	UDZSNP8.2B TE-17
D4306	9JDDE7RB8R22B	DIODE ZENER	UDZSNP8.2B TE-17
D4307	9JDDE7RB8R22B	DIODE ZENER	UDZSNP8.2B TE-17
D4308	9JDDE7RB8R22B	DIODE ZENER	UDZSNP8.2B TE-17
D4310	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4311	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4312	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4313	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4314	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4315	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4316	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4317	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4318	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4319	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4320	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4322	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4323	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
*** ICS ***			
IC800	9JDIC8M053620	SCALER 470PIN BGA	MT5362CHG
IC801	9JDICRJ032CN0	EEPROM SOIC M32P	AT24C32CN-SH-T
IC802	9JDIGXM05162E	DDR2-800 512M CL=5	H5PS5162FFR-S5C
IC803	9JDIGXM05162E	DDR2-800 512M CL=5	H5PS5162FFR-S5C
IC804	9JDICRJ0F0810	NOR FLASH 8M SPI	AT26DF081A-SU
△ IC805	9JDIGRF0704U0	2A DROPOUT LINEAR REGULATOR	UP7704U8
IC806	9JDI9UF032290	RESET IC 2.9V TYPE	PST3229NR
IC807	-----	MEMORY DATA NAND FLASH 256M	HY27US08561A-TP
△ IC3401	9JDI5PJ045250	2A 30V SWITCHING REGULATOR	SC4525ASETRT
△ IC3402	9JDI1ZF9331D0	REGULATOR 3.3V	RP131H331D-T1-F
△ IC3403	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
△ IC3404	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
△ IC3405	9JDI1ZF9121DX	REGULATOR 1.25V	RP131H121D5-T1-F

ELECTRICAL REPLACEMENT PARTS LIST

△ IC3406	9JDI1ZF9251D0	REGULATOR 2.5V	RP131H251D-T1-F
△ IC3407	9JDI1ZF9331D0	REGULATOR 3.3V	RP131H331D-T1-F
△ IC3408	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
△ IC3481	9JDI5PJ045250	2A 30V SWITCHING REGULATOR	SC4525ASETRT
IC3601	9JDS54B01WE01	MEMORY DATA EEPROM 2K I2C	AT24C02BN-SH-T
IC4301	9JDI5AF013510	VIDEO DRIVER 6DB AMP,75OHMDRV	NJW1351RB1(TE1)
△ IC4302	9JDI1ZF9090B0	REG VOUT=9V HSOP 6PIN	R1190S090B-E2-F
IC4303	9JDIC8NF82920	AUDIO MULTIPLEXER 56PIN QFN	MT8292N
IC4304	9JDI0UF015010	A/V SW 2INPUT 1OUTPUT	MM1501XNRE
IC9600	9JDIC8K082950	DTV SYSTEM IC 128PIN QFP	MT8295AE
△ IC9601	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F

*** TRANSISTORS ***

Q801	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q804	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q805	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q806	9JDTPAAD05003	COMPOUND TRANSISTOR	KRA104SRTK
Q807	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q808	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q809	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q2801	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
△ Q2802	9JDTK9A3443B0	FET	SI3443BDV-T1-E3
Q3401	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3402	9JDTNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK
Q3403	9JDTPAAD05003	COMPOUND TRANSISTOR	KRA104SRTK
Q3404	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3405	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3406	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
△ Q3407	9JDTK9A3443B0	FET	SI3443BDV-T1-E3
△ Q3408	9JDTJ5MC61080	FET	TPC6108
Q3409	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3410	9JDTL4A01664Y	TRANSISTOR SILICON	KTA1664-Y(GP)
Q3481	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3482	9JDTNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK
Q3602	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q4201	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q4202	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q4301	9JDT27T035410	FET	2SK3541_T2L
Q4302	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q4303	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q4304	9JDTPAAD05003	COMPOUND TRANSISTOR	KRA104SRTK
Q4305	9JDTPAAD05003	COMPOUND TRANSISTOR	KRA104SRTK
Q4306	9JDTPAAD05003	COMPOUND TRANSISTOR	KRA104SRTK
Q4307	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4308	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4309	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4310	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4311	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK

*** COILS ***

B801	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B802	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B803	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B804	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B805	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B806	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B807	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B808	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B809	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B810	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B811	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B2801	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2802	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2803	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2804	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B3401	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B3481	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B3601	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B3602	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4201	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4202	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4203	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4204	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04

ELECTRICAL REPLACEMENT PARTS LIST

B4205	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4206	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4207	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4208	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4209	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4210	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4211	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4301	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4302	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4303	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4304	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4305	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4306	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4307	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4308	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4309	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4310	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4311	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4312	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4313	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4314	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4315	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4316	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4317	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4318	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4319	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4320	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4321	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4322	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4323	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4324	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4325	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4326	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B9601	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9602	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
L3401	9JD021AMF2R2P	COIL	2.2 UH
L3481	9JD021AMF2R2P	COIL	2.2 UH
L3601	9JD02D1000119	COIL CHOKE	EXC28CG900U
L3602	9JD02D1000119	COIL CHOKE	EXC28CG900U
*** JACKS ***			
CP9601	9JD0636800016	HOLDER,IC	A01A5A00C110P00
J4301	9JD060R131024	HEADPHONE JACK	PJ-364H
J4302	9JD060R401140	RCA JACK	RCA-101HT(OR)
J4303	9JD063Y100098	SOCKET,21PIN	RGB-56H
*** CONNECTORS ***			
CD801	9JD06CH231503	CORD CONNECTOR	CH231503
CP2802	9JD069EVU301C	CONNECTOR PCB SIDE	00 6232 030 006 894+
CP4201	9JD06CK7N0301	CORD CONNECTOR	TWG-P23P-A1
CP4202	9JD06CK7N0301	CORD CONNECTOR	TWG-P23P-A1
CP4203	9JD069S2M0079	CONNECTOR PCB SIDE	A2006WV0-2X11P
*** CRYSTAL & CERAMIC OSCILLATORS ***			
X801	9JD100DT05403	CRYSTAL	DSX321G
X9600	9JD100GT02727	CRYSTAL	SMD-49 C27000J029
*** NETWORKS ***			
NR801	9JD11074220M7	R,NETWORK	CRA108220JV
NR802	9JD11074220M7	R,NETWORK	CRA108220JV
NR803	9JD11074220M7	R,NETWORK	CRA108220JV
NR804	9JD11074220M7	R,NETWORK	CRA108220JV
NR2801	9JD11074220M7	R,NETWORK	CRA108220JV
NR2802	9JD11074220M7	R,NETWORK	CRA108220JV
NR9601	9JD11074330M7	R,NETWORK	CRA108330JV

ELECTRICAL REPLACEMENT PARTS LIST

*** OTHERS ***

CP801	9JD06GG240029	CONNECTOR PCB SIDE	A2001WV-4A
CP802	9JD06G5AA1002	CONNECTOR PCB SIDE	USB-A1D102F-4B4N
CP803	9JD06GG260029	CONNECTOR PCB SIDE	A2001WV-6A
CP3601	9JD06GDYL3038	CONNECTOR PCB SIDE	1A0300030
CP4301	9JD06G7S21501	CONNECTOR PCB SIDE	WD-00021-R
CP5801	9JD06GF2G0020	CONNECTOR PCB SIDE	WD-00028-R

DVD MT PCB ASS'Y

*** PCB ***

PCB130	9JDA54C01A130M	DVD MT PCB ASS'Y	DMJ116A
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*** DIODES ***

D2301	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D2302	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D4001	9JDDGERMA1110	DIODE SILICON	MA111-(TX)

*** ICS ***

△ IC2301	9JDI1UFV5766S	5CH MOTOR DRIVER IC	AM5766
IC4001	9JDIC8K0389LD	DVD MPEG 128PIN MEDIATEK	MT1389DE/L-L
IC4004	-----	MEMORY DATA FLASH 16M SPI 8PIN	AT25DF161-SH-T
IC4005	9JDIGXJ01620F	SDRAM 64M CL=2	HY57V641620FTP-7
IC8501	9JDI0QF045650	DUAL OPEAMP	NJM4565M(Te1)
IC8502	9JDI1ZF981D50	REGULATOR 1.8V	RP131H181D5-T1-F

*** TRANSISTORS ***

Q2301	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q2302	9JDTAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
Q2303	9JDTAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
Q2304	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q2305	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q8506	9JDT27T035410	FET	2SK3541_T2L
Q8507	9JDT27T035410	FET	2SK3541_T2L

*** COILS ***

B4003	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4007	9JD024AC5221F	CORE,BEADS	BLM18BD221SN1D
B4008	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4010	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4012	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8501	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B8502	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8503	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B8504	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
L8501	9JD021ES11R8K	COIL	1.8 UH

*** CONNECTORS ***

CP2301	9JD069KYOT159	CONNECTOR PCB SIDE	LD07T2-24ND-03
CP2302	9JD069EV5T01G	CONNECTOR PCB SIDE	04 6232 405 008 868+
CP2303	9JD069EV4T01G	CONNECTOR PCB SIDE	04 6232 404 008 868+

*** CRYSTAL & CERAMIC OSCILLATORS ***

X4001	9JD100GT02727	CRYSTAL	SMD-49 C27000J029
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*** NETWORKS ***

NR4002	9JD11074330M7	R,NETWORK	CRA108330JV
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*** OTHERS ***

CP8501	9JD06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
CP8502	9JD06GG280019	CONNECTOR PCB SIDE	A2001WR-8A
SH8501	9JD126D000045	TERMINAL PIN	YQ-12
SH8502	9JD126D000045	TERMINAL PIN	YQ-12

ELECTRICAL REPLACEMENT PARTS LIST

POWER PCB ASS'Y

*** PCB ***

PCB240

9JDA54C01A240M

POWER PCB ASS'Y

CEJ511A

*** RESISTORS ***

△ R505	9JDRC31X1125J	RC	1.2M OHM 1W
△ R506	9JDRC31X1126J	RC	12M OHM 1W
△ R507	9JDR63881R22J	R,FUSE	0.22 OHM 1W
△ R510	9JDRC31X1224J	RC	220K OHM 1W
△ R516	9JDR3K78AR56J	R,METAL OXIDE	0.56 OHM 2W
△ R518	9JDR002T4101J	RC	100 OHM 1/4W
△ R7023	9JDR63884100J	R,FUSE	10 OHM 1/4W

*** CAPACITORS ***

△ C501	9JDP4K12D224K	CMPP	0.22 UF 310V
△ C502	9JDCE39E0M13M	CC	0.001 UF 250V E
△ C503	9JDCE39E0M13M	CC	0.001 UF 250V E
△ C504	9JDE8E1F1222D	CE	2200 UF 10V
△ C505	9JDCE39E0M13M	CC	0.001 UF 250V E
△ C506	9JDCE39E0M13M	CC	0.001 UF 250V E
△ C507	9JDP4K12D104K	CMPP	0.1 UF 310V
△ C508	9JDE83FHH101D	CE	100 UF 400V
△ C511	9JDE8EYF4221M	CE	220 UF 35V
△ C514	9JDCS0PB0415K	CC	0.1 UF 50V B
△ C515	9JDC03L0R7H2K	CC	220 PF 2KV R
△ C516	9JDC0PLRR7H2K	CC	220 PF 2KV R
△ C517	9JDP3N5F5103J	CPP	0.01UF 630V PP
△ C519	9JDE8E2U5470D	CE	47 UF 50V
△ C520	9JDE8E2U54R7D	CE	4.7 UF 50V
△ C522	9JDE8E1F3102M	CE	1000 UF 25V
△ C524	9JDE8E2U54R7D	CE	4.7 UF 50V
△ C525	9JDE7EYF4102M	CE	1000 UF 35V
△ C528	9JDCE39E0M13M	CC	0.001 UF 250V E
△ C529	9JDCE39E0M13M	CC	0.001 UF 250V E
C7023	9JDC339SLBE1J	CC	15 PF 6KV SL
C7026	9JDC339SLBE1J	CC	15 PF 6KV SL
C7027	9JDC339SLBE1J	CC	15 PF 6KV SL
C7030	9JDC339SLBE1J	CC	15 PF 6KV SL

*** DIODES ***

△ D503	9JDD7KE103820	DIODE VARISTA	S10K385E2S5M4
△ D505	9JDDOU011020M	DIODE VARISTA	DA38-102MB-M
△ D506	9JDD2WTRM11C0	DIODE SILICON	RM11C-EIC
△ D507	9JDD2WTRM11C0	DIODE SILICON	RM11C-EIC
△ D508	9JDD2WTRM11C0	DIODE SILICON	RM11C-EIC
△ D509	9JDD2WTRM11C0	DIODE SILICON	RM11C-EIC
△ D510	9JDD2BXARS010	DIODE SILICON	SARS01-V1
D512	9JDD28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L
△ D514	9JDD2WXRU2AM0	DIODE SILICON	RU2AM-EIC
△ D515	9JDD28A10A200	DIODE SILICON	FCF10A20
△ D516	9JDD2LT001F50	DIODE SILICON	1F5-E
D517	9JDD97U01801B	DIODE,ZENER	MTZJ18B T-77
△ D518	9JDD97U06R81B	DIODE,ZENER	MTZJ6.8B T-77
△ D523	9JDD28A10A061	DIODE SCHOTTKY BARRIER	FCQS10A065
△ D524	9JDD97U02401B	DIODE,ZENER	MTZJ24B T-77
△ D525	9JDD97U03301B	DIODE,ZENER	MTZJ33B T-77
△ D526	9JDD28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L
D7001	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D7002	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D7003	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D7004	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D7005	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D7006	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D7007	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D7008	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D7009	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D7010	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D7011	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D7012	9JDD1VT001330	DIODE,SILICON	1SS133T-77

ELECTRICAL REPLACEMENT PARTS LIST

D7013	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D7014	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D7015	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D7016	9JDD1VT001330	DIODE,SILICON	1SS133T-77

*** ICS ***

△ IC301	9JDI03SP20520	SOUND AMP 5W 2CH	LA42052-E
△ IC501	9JDI2BT0Y6760	VDSS=800V RON=2.1OHM	STR-Y6765
△ IC502	9JDI1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	KIA431A-AT
△ IC505	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
IC7001	9JDI1JF010080	1CH HALF-BRIDGE INVERTER IC	MP1008-ES-LF-Z

*** TRANSISTORS ***

Q505	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
△ Q7001	9JDTJ3MTP2010	FET	ATP201-V-TL-H
Q7002	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q7003	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q7004	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
△ Q7005	9JDTJ3MTP2010	FET	ATP201-V-TL-H
Q7006	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q7007	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q7008	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q7009	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q7010	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK

*** COILS ***

B304	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B305	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B306	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B307	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B308	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B309	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B310	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B312	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B313	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B501	9JD024HT03564	CORE,BEADS	W4BRH3.5X6X1.0
B8101	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06
B8102	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06
B8103	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06
B8104	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8105	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8106	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8107	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
△ L501	9JD029X000121	COIL,LINE FILTER	SS24H-K08240-CH
L503	9JD02167E220K	COIL	22 UH
L504	9JD02167E100K	COIL	10 UH

*** TRANSFORMERS ***

△ T501	9JD0481291594	TRANSFORMER,SWITCHING	81291594
△ T7001	9JD048137002R	TRANSFORMER,SWITCHING	8137002R
△ T7002	9JD048137002R	TRANSFORMER,SWITCHING	8137002R

*** JACKS ***

△ J301	9JD060R131024	HEADPHONE JACK	PJ-364H
△ J501	9JD064Q2A0004	JACK,AC	CCT2302-0721C
J8102	9JD060R411058	RCA JACK	RCA-341H(NI)-09
J8103	9JD060R431039	RCA JACK	RCA-228H(3)NI-02
J8104	9JD060R431040	RCA JACK	RCA-341H(2)NI-06

*** CONNECTORS ***

CD301	9JD06CH142102	CORD CONNECTOR	CH142102
CP501	9JD06977NM020	CONNECTOR PCB SIDE	127301123K2
CD7602	9JD06CH251204	CORD CONNECTOR	CH251204
CP7001	9JD069SJ20010	CONNECTOR PCB SIDE	C3502WR0-2P-HK-PBTHF
CP7002	9JD069SJ20010	CONNECTOR PCB SIDE	C3502WR0-2P-HK-PBTHF
CP7003	9JD069SJ20010	CONNECTOR PCB SIDE	C3502WR0-2P-HK-PBTHF
CP7004	9JD069SJ20010	CONNECTOR PCB SIDE	C3502WR0-2P-HK-PBTHF
CP8101	9JD06977NM020	CONNECTOR PCB SIDE	127301123K2

ELECTRICAL REPLACEMENT PARTS LIST

*** FUSES ***

△ F501	9JD0805T02501	FUSE	SCT 2.5A
△ F502	9JD0805T02501	FUSE	SCT 2.5A
△ F7001	9JD0835C04003	MICRO FUSE	20N_4000FS

*** THERMISTOR ***

△ TH501	9JDDSV8E4R7M	THERMISTOR	B57153S0479A001
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*** OTHERS ***

EL2401	9JD124116281A	EYE LET	XRY16X28BD
EL2402	9JD124120301A	EYE LET	XRY20X30BD
J8101	9JD062R750007	PLUG	DIN-417HA-01
SH501	9JD126D000045	TERMINAL PIN	YQ-12

OPERATION PCB ASS'Y

*** PCB ***

PCB270	9JDA54C01A270M	OPERATION PCB ASS'Y	CEJ512A
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*** SWITCHES ***

SW2201	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2202	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2203	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2204	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2205	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2206	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2207	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2208	9JD0504101T34	SWITCH,TACT	EVQ21505R

*** OTHERS ***

CP2201	9JD06GG230019	CONNECTOR PCB SIDE	A2001WR-3A
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TUNER PCB ASS'Y

*** PCB ***

PCB290	9JDA54C01A290M	TUNER PCB ASS'Y	CEJ491B
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*** ICS ***

△ IC5801	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
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*** TUNER ***

△ TU5801	9JD0164Y03009	DIGITAL TUNER	TDTW-S720D
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*** OTHERS ***

CP5802	9JD06GF2G0010	CONNECTOR PCB SIDE	WD-00027-R
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AND OTHERS

*** CONNECTORS ***

CD4203	9JD06CH2M1601	CORD CONNECTOR	CH2M1601
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*** AC CORD ***

△ CD501	9JD120Q155804	CORD AC	P205-1324-4
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*** OTHERS ***

BT001	9JD141L003022	BATTERY,MANGAN	R6P(AR)2P WO GM PET EU
BT002	9JD141L003022	BATTERY,MANGAN	R6P(AR)2P WO GM PET EU
CD7201	9JD12C10U1801	CORD JUMPER	FFC10301800510T1-F04

ELECTRICAL REPLACEMENT PARTS LIST

△ SP301	9JD070Y433004	SPEAKER	S0308F01
△ SP302	9JD070Y433004	SPEAKER	S0308F01
TM101	9JD076B0RV011	TRANSMITTER	ETR0088-010510LF
△ V7201	9JD09EV121601	LCD V216B1-L01	V216B1-L01

RESISTOR

RC..... CARBON RESISTOR

CAPACITORS

CC..... CERAMIC CAPACITOR
CE..... ALUMI ELECTROLYTIC CAPACITOR
CP..... POLYESTER CAPACITOR
CPP..... POLYPROPYLENE CAPACITOR
CPL..... PLASTIC CAPACITOR
CMP..... METAL POLYESTER CAPACITOR
CMPL..... METAL PLASTIC CAPACITOR
CMPP..... METAL POLYPROPYLENE CAPACITOR

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